



SAGE University, Indore
INSTITUTE OF ENGINEERING AND TECHNOLOGY
CIVIL ENGINEERING DEPARTMENT
CHOICE BASED CREDIT SYSTEM
PROGRAM STRUCTURE
Effective for Academic Session: 2024-25

Program Code : B Tech (CE)

Program: Bachelor of Technology in Civil Engineering

Semester: I

Admission batch : 2024-25

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) For Practical and Viva	Continuous Internal Evaluation		L		T	P	SM			NTCC	
				Lab Work / WPR	Attendance/Assignment /viva/Lab manual													
1	EBSDCMAT004T	DC	Mathematics-I	60	20	20	-	-	-	100	3	1	0	-	-	4	4	
2	ECEDCBCE001T	DC	Basic Civil Engineering	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
3	ECSDCFI002T	DC	Fundamentals of Computer & IT	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
4	EBSDCCHM001T	DC	Chemistry	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
5	TO BE SELECTED FROM UNIVERSITY LIST	GE	General Elective-I	60	20	20	-	-	-	100	2	0	0	4	-	4	6	
6	AECACCOS001T	AECC	Communication Skills & Personality Development	60	20	20				100	3	0	0	-	-	3	3	
7	ECEDCBCE001P	DC	Basic Civil Engineering Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
8	ECSDCFI002P	DC	Fundamentals of Computer & IT Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
9	EBSDCCHM001P	DC	Chemistry Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
10	AECACCOS001P	AECC	Communication Skills Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
11	TO BE SELECTED FROM LIST	DSEEC	Departmental Skill Enhancement Elective Course-I	-	-	-	30	10	10	50	0	0	4	-	-	2	4	
Total				360	120	120	150	50	50	850	17	1	12	4	0	26	34	

List of Departmental Skill Enhancement Elective Course-I (DSEEC-I) :

S.N.	Course Code	Course title
1	ECEDSSRP001P	Survey Practice-I
2	ECEDSCSV002P	Construction Supervision

Details of GE-I Offered

S.N.	Course Code	Course title
1	ECEGEICE001B	Introduction to Civil Engineering Profession

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CIVIL ENGINEERING DEPARTMENT
CHOICE BASED CREDIT SYSTEM
PROGRAM STRUCTURE
Effective for Academic Session: 2024-25

Program Code : B Tech (CE)

Program: Bachelor of Technology in Civil Engineering
 Semester: II

Admission Batch : 2024-25

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	SM			NTCC	
								Lab Work / WPR	Attendance/Assignment /viva/Lab manual									
1	EBSDCMAT007T	DC	Mathematics-II	60	20	20	-	-	-	100	3	1	0	-	-	4	4	
2	EBSDCPHY001T	DC	Physics	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
3	ECEDCBPD002T	DC	Building Planning & Drawing	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
4	ECEDCENM003T	DC	Engineering Mechanics	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
5	TO BE SELECTED FROM UNIVERSITY LIST	GE	General Elective-II	60	20	20	-	-	-	100	2	0	0	4	-	4	6	
6	EBSDCPHY001P	DC	Physics Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
7	ECEDCBPD002P	DC	Building Planning & Drawing Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
8	ECEDCENM003P	DC	Engineering Mechanics Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
9	TO BE SELECTED FROM LIST	DSEEC	Departmental Skill Enhancement Elective Course-II	-	-	-	30	10	10	50	0	0	4	-	-	2	4	
10	ECEDPMR001N	DAP	Micro Project-I	-	-	-	-	20	30	50	0	0	0	-	4	2	0	
11	AECACUHV001N	AECC	Universal Human Values & Professional Ethics	-	-	-	-	20	30	50	0	0	0	-	4	2	0	
Total				300	100	100	120	80	100	800	14	1	10	4	8	26	29	

List of Departmental Skill Enhancement Elective Course-II (DSEEC-II) :		
S.N.	Course Code	Course title
1	EMEDSWSP001P	Workshop Practice
2	EMEDSEND001P	Engineering Drawing
2	ECSDSOPJ002P	Object-Oriented Programming in Java

Details of GE-II Offered		
S.N.	Course Code	Course title
1	ECEGEBMV007B	Building Material Construction and Vastu

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CHOICE BASED CREDIT SYSTEM
PROGRAM STRUCTURE
Effective for Academic Session: 2024-25

Program Code : B Tech (CE)

Program: Bachelor of Technology in Civil Engineering
 Semester: III

Admission batch : 2024-25

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) For Practical and Viva	Continuous Internal Evaluation		L		T	P	SM			NTCC	
				Lab Work / WPR	Attendance/Assignment/viva/Lab manual													
1	ECEDCSOM004T	DC	Strength of Material	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
2	ECEDCSUR005T	DC	Surveying	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
3	ECEDCMST006T	DC	Material Science & Construction Technology	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
4	TO BE SELECTED FROM UNIVERSITY LIST	GE	General Elective-III	60	20	20	-	-	-	100	2	0	0	4	-	4	6	
5	TO BE SELECTED FROM LIST	DE	Departmental Elective-I	60	20	20	-	-	-	100	4	0	0	-	-	4	4	
6	ECEDCSOM004P	DC	Strength of Material Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
7	ECEDCSUR005P	DC	Surveying Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
8	ECEDCMST006P	DC	Material Science & Construction Technology Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
9	AECACEVS002N	AECC	Environmental Study and Disaster Management	-	-	-	-	20	30	50	0	0	0	-	4	2	0	
10	TO BE SELECTED FROM LIST	DSEEC	Departmental Skill Enhancement Elective Course-III	-	-	-	30	10	10	50	0	0	4	-	-	2	4	
Total				300	100	100	120	60	70	750	15	0	10	4	4	24	29	

List of Departmental Skill Enhancement Elective Course-III (DSEEC-III) :		
S.N.	Course Code	Course title
1	ECEDSACD005P	AutoCAD 2D
2	ECEDSCOE006P	Civil Engineering Equipment-I
2	ECSDSDSA003P	Data Structure

Details of GE-III Offered:		
S.N.	Course Code	Course title
1	ECEGEMSW003B	Municipal Solid Waste Management

List of Departmental Elective -I, (DE-I) :		
S.N.	Course Code	Course title
1	ECEDEGEO001T	Geology
2	ECEDEPIP002T	Physical Infrastructure & Planning

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CIVIL ENGINEERING DEPARTMENT
CHOICE BASED CREDIT SYSTEM
PROGRAM STRUCTURE
Effective for Academic Session: 2024-25

Program Code : B Tech (CE)

Program: Bachelor of Technology in Civil Engineering
Semester: IV

Admission batch : 2024-25

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) For Practical and Viva	Continuous Internal Evaluation		L		T	P	SM	NTCC			
				Lab Work / WPR	Attendance/Assignment /viva/Lab manual													
1	ECEDCTOS007T	DC	Theory of Structures	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
2	ECEDCFLM008T	DC	Fluid Mechanics	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
3	ECEDCTRE009T	DC	Transportation Engineering	60	20	20	-	-	-	100	4	0	0	-	-	4	4	
4	TO BE SELECTED FROM UNIVERSITY LIST	GE	General Elective-IV	60	20	20	-	-	-	100	2	0	0	4	-	4	6	
5	TO BE SELECTED FROM LIST	DE	Departmental Elective-II	60	20	20	-	-	-	100	4	0	0	-	-	4	4	
6	ECEDCTOS007P	DC	Theory of Structure Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
7	ECEDCFLM008P	DC	Fluid Mechanics Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
8	ECEDPMPR002N	DAP	Micro Project-II	-	-	-	-	20	30	50	0	0	0	-	4	2	-	
9	TO BE SELECTED FROM LIST	DSEEC	Departmental Skill Enhancement Elective Course-IV	-	-	-	30	10	10	50	0	0	4	-	-	2	4	
Total				300	100	100	90	50	60	700	16	0	8	4	4	24	28	

Note: Student have to undergo Minimum 4 Week Internship after IV Semester, which will Assesed in V Semester.

List of Departmental Skill Enhancement Elective Course-IV (DSEEC-IV) :		
S.N.	Course Code	Course title
1	ECEDSACD007P	AutoCAD 3D
2	ECEDSCEE008P	Civil Engineering Equipment-II
3	ECSDSPYP004P	Python Programming

Details of GE-IV Offered		
S.N.	Course Code	Course title
1	ECEGECMM004B	Construction Methods and Equipment Management

List of Departmental Elective -II, (DE-II) :		
S.N.	Course Code	Course title
1	ECEDEUTP003T	Urban and Town Planning
2	ECEDEACT004T	Advance Construction Technology

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CIVIL ENGINEERING DEPARTMENT
CHOICE BASED CREDIT SYSTEM
PROGRAM STRUCTURE
Effective for Academic Session: 2024-25

Program Code : B Tech (CE)

Program: Bachelor of Technology in Civil Engineering

Semester: V

Admission batch : 2024-25

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) For Practical and Viva	Continuous Internal Evaluation		L		T	P	SM	NTCC			
				Lab Work/WPR	Attendance/Assignment/viva/Lab manual													
1	ECEDCSDD010T	DC	Structural Design & Drawing-I (RCC)	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
2	ECEDCWRE011T	DC	Water Resources & Irrigation Engineering	60	20	20	-	-	-	100	4	0	0	-	-	4	4	
3	ECEDCGTE012T	DC	Geotechnical Engineering-I	60	20	20	-	-	-	100	3	0	0	-	-	3	3	
4	ECEDCCPM012T	DC	Construction Planning and Management	60	20	20	-	-	-	100	4	0	0	-	-	4	4	
5	TO BE SELECTED FROM LIST	DE	Departmental Elective-III	60	20	20	-	-	-	100	4	0	0	-	-	4	4	
6	TO BE SELECTED FROM LIST	DE	Departmental Elective-IV	60	20	20	-	-	-	100	4	0	0	-	-	4	4	
7	ECEDCSDD010P	DC	Structural Design & Drawing-I (RCC) Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
8	ECEDCGTE012P	DC	Geotechnical Engineering-I Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2	
9	TO BE SELECTED FROM LIST	DSEEC	Departmental Skill Enhancement Elective Course-V	-	-	-	30	10	10	50	0	0	4	-	-	2	4	
10	ECEDSIIN001N	DSEEC	Industrial Internship-I	-	-	-	-	20	30	50	-	-	-	-	4	2	-	
Total				360	120	120	90	50	60	800	22	0	8	0	4	28	30	

List of Departmental Skill Enhancement Elective Course-V (DSEEC-V) :

S.N.	Course Code	Course title
1	ECEDSFWI009P	Form Work-I
2	ECEDSCPI010P	Computer Programming-I (Matlab/Scilab)
3	ECSDSWDD005P	Web Design and Development

List of Departmental Elective -IV, (DE-IV) :

S.N.	Course Code	Course title
1	ECEDEAFM007T	Advanced Fluid Mechanics
2	ECEDEIPR008T	Intellectual Property Rights

List of Departmental Elective -III, (DE-III) :

S.N.	Course Code	Course title
1	ECEDEAAS005T	Advance Analysis of Structures
2	ECEDEABM006T	Alternative Building Material & Technologies

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CHOICE BASED CREDIT SYSTEM
PROGRAM STRUCTURE
Effective for Academic Session: 2024-25

Program Code : B Tech (CE)

Program: Bachelor of Technology in Civil Engineering
Semester: VI

Admission batch : 2024-25

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) For Practical and Viva	Continuous Internal Evaluation			L	T	P	SM	NTCC		
				Lab Work / WPR	Attendance/Assignment /viva/Lab manual												
1	ECEDCSDD013T	DC	Structural Design & Drawing-II (Steel)	60	20	20	-	-	-	100	3	0	0	-	-	3	3
2	ECEDCENV014T	DC	Environmental Engineering	60	20	20	-	-	-	100	3	0	0	-	-	3	3
3	ECEDCHIE015T	DC	Highway Engineering	60	20	20	-	-	-	100	3	0	0	-	-	3	3
4	TO BE SELECTED FROM LIST	DE	Departmental Elective-V	60	20	20	-	-	-	100	4	0	0	-	-	4	4
5	TO BE SELECTED FROM LIST	DE	Departmental Elective-VI	60	20	20	-	-	-	100	4	0	0	-	-	4	4
6	ECEDCSDD013P	DC	Structural Design & Drawing-II (Steel) Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2
7	ECEDCENV014P	DC	Environmental Engineering Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2
8	ECEDCHIE015P	DC	Highway Engineering Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2
9	ECEDPMPR003N	DAP	Minor Project	-	-	-	-	40	60	100	0	0	0	-	12	6	-
10	TO BE SELECTED FROM LIST	DSEEC	Departmental Skill Enhancement Elective Course-VI	-	-	-	30	10	10	50	0	0	4	-	-	2	4
Total				300	100	100	120	80	100	800	17	0	10	0	12	28	27

Note: Student have to undergo Minimum 4 Week Internship after VI Semester, which will Assesed in VII Semester.

List of Departmental Skill Enhancement Elective Course-VI (DSEEC-VI) :		
S.N.	Course Code	Course title
1	ECEDSAAI011P	Application of Artificial Intelligence in Civil Engineering
2	ECEDSPBS012P	Plumbing Services

List of Departmental Elective -VI, (DE-VI) :		
S.N.	Course Code	Course title
1	ECEDEEIA009T	Environmental Impact Assessment
2	ECEDEAWR010T	Advance Water Resources Engineering

List of Departmental Elective -V, (DE-V) :		
S.N.	Course Code	Course title
1	ECEDEASD007T	Advance Structural Design & Drawing-I (RCC)
2	ECEDETBS008T	Tall Building Structures

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CIVIL ENGINEERING DEPARTMENT
CHOICE BASED CREDIT SYSTEM
PROGRAM STRUCTURE
Effective for Academic Session: 2024-25

Program Code : B Tech (CE)

Program: Bachelor of Technology in Civil Engineering
 Semester: VII

Admission batch : 2024-25

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) For Practical and Viva	Continuous Internal Evaluation		L	T	P	SM	NTCC			
		Lab Work / WPR	Attendance/ Assignment /viva/Lab manual														
1	ECEDCQSC016T	DC	Quantity Surveying & Costing	60	20	20	-	-	-	100	3	0	0	-	-	3	3
2	ECEDCDHS017T	DC	Design of Hydraulic Structure	60	20	20	-	-	-	100	4	0	0	-	-	4	4
3	ECEDCGTK018T	DC	Geotechnical Engineering-II	60	20	20	-	-	-	100	3	0	0	-	-	3	3
4	TO BE SELECTED FROM LIST	DE	Departmental Elective-VII	60	20	20	-	-	-	100	4	0	0	-	-	4	4
5	ECEDCQSC016P	DC	Quantity Surveying & Costing Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2
6	ECEDCGTK018P	DC	Geotechnical Engineering-II Lab.	-	-	-	30	10	10	50	0	0	2	-	-	1	2
7	TO BE SELECTED FROM LIST	DSEEC	Departmental Skill Enhancement Elective Course-VII	-	-	-	30	10	10	50	0	0	4	-	-	2	4
8	ECEDSIIN002N	DSEEC	Industrial Internship-II	-	-	-	-	20	30	50	0	0	0	-	8	4	-
Total				240	80	80	90	50	60	600	14	0	8	0	8	22	22

List of Departmental Skill Enhancement Elective Course-VII (DSEEC-VII) :		
S.N.	Course Code	Course title
1	ECEDSSPS013P	STAAD Pro Software Skill
2	ECEDSAME014P	Application of MS Excel in Civil Engineering

List of Departmental Elective -VII, (DE-VII) :		
S.N.	Course Code	Course title
1	ECEDEPDT013T	Pavement Design & Traffic Engineering
2	ECEDESWM014T	Solid Waste Management

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CHOICE BASED CREDIT SYSTEM
PROGRAM STRUCTURE
Effective for Academic Session: 2024-25**

Program Code : B Tech (CE)

Program: Bachelor of Technology in Civil Engineering
Semester: VIII

Admission batch : 2024-25

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) For Practical and Viva	Continuous Internal Evaluation		L		T	P	SM			NTCC	
				Lab Work / WPR	Attendance/Assignment /viva/Lab manual													
1	ECEDPMR004N	DAP	Program Project	-	-	-	-	40	60	100	0	0	0	-	24	12	24	
Total				0	0	0	0	40	60	100	0	0	0	0	24	12	24	

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