ACADEMIC CURRICULA

UNDERGRADUATE INTEGRATED POST GRADUATE DEGREE PROGRAMMES

(With exit option of Diploma)

(Choice Based Flexible Credit System)

Regulations 2021

Volume - 1

(Revised on July 2024)



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)
Kattankulathur, Chengalpattu District 603203,
Tamil Nadu, India



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY Kattankulathur, Chengalpattu District 603203, Tamil Nadu, India

16. B.Tech. in Civil Engineering

16. (a) Mission of the Department

Mission Stmt – 1	To move up through international alliances and collaborative initiatives in civil engineering to achieve global excellence
Mission Stmt – 2	To accomplish a process to advance knowledge in a rigorous research environment related to civil engineering and allied disciplines
Mission Stmt – 3	To attract and build people in a rewarding and inspiring environment by fostering freedom, empowerment, creativity and innovation.

16. (b) Program Educational Objectives (PEO)

PEO – 1	Graduates will pursue higher studies in civil engineering, management and other related fields
PEO – 2	Graduates will perform as professional engineers in the fields of civil engineering
PEO – 3	Graduates will perform in diverse fields and gradually move into teamwork and leadership positions.
PEO – 4	Graduates will contribute to the development of the profession, nation and society

16. (c) Mission of the Department to Program Educational Objectives (PEO) Mapping

/ 9 /	Mission Stmt 1	Mission Stmt 2	Mission Stmt 3
PEO - 1	3	3	2
PEO - 2	3	2	3
PEO - 3	3	2	3
PEO - 4	3	2	3

^{3 –} High Correlation, 2 – Medium Correlation, 1 – Low Correlation

16. (d) Mapping Program Educational Objectives (PEO) to Program Outcomes (PO)

	Program Outcomes (PO)										Prog	rogram Speci <mark>fic</mark>			
	1_	2	- 3	-4	5	6	7	8	9	10	11	12	Outo	comes (F	PSO)
	Engineering Knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of complex problems	Modern Tool Usage	The engineer and society	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PS0-1	PSO-2	PSO-3
PEO - 1	3	3	3	3	3	1-	1	1	1	1	1	1	3	3	3
PEO - 2	3	3	3	3	3	1	1	1	1	1	1	1	3	3	3
PEO - 3	1	1	1	1	2	2	1	3	3	3	3	3	3	2	3
PEO - 4	1	1	1	1	1	3	3	3	2	2	2	3	3	3	3

^{3 –} High Correlation, 2 – Medium Correlation, 1 – Low Correlation

PSO – Program Specific Outcomes (PSO)

PSO - 1	Graduates apply the knowledge of mathematical and physical sciences to solve problems in structural engineering, construction engineering management, geotechnical engineering, water resources engineering, environmental engineering and transportation engineering
PSO - 2	Graduates are capable of handling and applying modern engineering tools, software, Remote Sensing and GIS for solving civil engineering related problems
PSO - 3	Graduates are capable of working in teams in laboratory and industrial environment and carrying out major design projects

16. (e) Program Structure: B.Tech. in Civil Engineering

		Humanities & Social Sciences					Basic Science Courses (B)							
		including Management Courses (H)						Course	Course	Н	lours	<i>:</i> /		
	Course	Course		our				Course Code	Course Title	١	Nee			
	Code	Title	V	Vee						L	Т	Р	С	
			L	Ţ	P	С	4		Calculus and Linear Algebra	3	1	0	4	
	21LEH101T	Communicative English	2	1	0	3	-		Advanced Calculus and Complex	3	1	0	4	
	21LEH102T	Chinese					⊪	/	Analysis			_	-	
	21LEH103T	French German							Chemistry	3	0	0	5	
	21LEH104T 21LEH105T	Japanese	2	1	0	3	ŀ	21BTB103T 21PYB104J	Physics : Mechanics	3	1	2	5	
	21LEH106T	Korean	_	,	0	J	ŀ		Transforms and Boundary Value		-			
	21LEH107T	Spanish							Problems	3	1	0	4	
	21LEH108T	Russian					ľ		Applied Geology	3	0	2	4	
	21GNH101J	Philosophy of Engineering	1	0	2	2	ľ	21MAB301T	Probability and Statistics	3	1	0	4	
	1PDH209T ¹	Social Engineering	2	0	0	2	I		Т	otal	Cre	dits	32	
2	1GNH401T	Behavioural Psychology	2	1	0	3	ŀ							
		To	tal	Cre	dits	13			Professional Core Courses (C)		1			
		Engineering Science Courses (S)					ال	Course	Course		lours Wee			
			Н	our	s/		1	Code	Title	F	T	Р	С	
	Code	Course		Vee			╟	04070	Building Materials in the Built	_				
	Code	Title	L	Τ	Р	С		21CEC101T	Environment	3	0	0	3	
		Engineering Graphics and Design	0	0	4	2		21CEC201T	Hydro Mechanics and Hydraulic	3	0	0	3	
		Basic Civil and Mechanical Workshop	0	0	4	2		210002011	Engineering	3	U	U	J	
_		Electrical and Electronics Engineering	3	1	0	4		21CEC201L ¹	Fluid Mechanics and Machinery	0	0	2	1	
		Programming for Problem Solving	3	0	2	4	4		Laboratory					
		Design Thinking and Methodology	1	2	0	3	4	21CEC202T	Engineering Surveying	3	0	0	3	
		Mechanics of Structures Data Science	3	0	0	2	╬	21CEC202L *	Surveying Laboratory Environmental Engineering and Design	3	0	0	3	
	10333031		_	Cre	dits		╂		Environmental Engineering Laboratory	0	0	2	1	
			tai	Oic	uito	20	4	21CSC206T	Artificial Intelligence	2	1	0	3	
		Non Credit Courses (M)					∦	21CEC204T ²		3	0	0	3	
	Course	Course			ırs /		I	21CEC204L ¹	Concrete Technology and Strength of	0	0	2	1	
	Code	Title	H	We		_			Materials Laboratory		U	2	ı	
24	DDM1011 1	Professional Skills and Practices	L (. 1			4	21CEC205T	Geomechanics	3	0	0	3	
_		General Aptitude	0					21CEC205L ¹		0	0	2	1	
		Verbal Reasoning	0			1		21CEC206T	Irrigation and Water Resources	3	0	0	3	
		Critical and Creative Thinking Skills	0				╟		Engineering Concrete Technology and Special					
		Analytical and Logical Thinking Skills	0					21CEC207T	Concrete Technology and Special	3	0	0	3	
	PDM302L ¹	Employability Skills and Practices	0) 2		╟	21CEC301T	Structural Analysis	3	0	0	3	
		Environmental Science	1			0			Computer-Aided Civil Engineering	0		2		
		Constitution of India	1		_	0	-111	21CEC301L ¹	Laboratory		0	2	1	
		Universal Human Values – Introduction	1			0		21CEC302T	Structural Engineering Design-II	2	1	0	3	
21		Professional Ethics	_		0	0	ᆊ		Transportation Engineering	3	0	0	3	
21		Universal Human Values-II: Understandin Harmony and Ethical Human Conduct	$g \mid 2$	2 1	1 0	3		21CEC303L ¹	Transportation Engineering Laboratory	0	0	2	1	
21		Indian Art Form	1		0	0	1	21CEC304T ²	Construction Engineering and	3	0	0	3	
		Indian Traditional Knowledge	1	_			-111		мападетепт	otal	Cre	dite	46	
		Physical and Mental Health using Yoga	'		, 0	Ü	I,	D 1						
		National Service Scheme			, ,	0		Project Wor	k, Seminar, Internship in Industry / Hig	her	lecl	nnic	al	
21	GNM103L ¹	National Cadet Corps		' () 2	0	╟		Institutions (P)	Ц) III C	,		
		National Sports Organization						Course	Course		ours . /eek			
		To	otal	Cr	edits	03		Code	Title	L		Р	С	
							1	21GNP301L	¹ Community Connect	0	0	2	1	
							ı	21CEP302L			0	6	2	
								21CEP303T	1 MOOC	3	0	0	3	
								21CEP401L		0	_		15	
								21CEP402L		_	_	_	10	
							-	21CEP403L		-	_	10	5	
1									To	otal	Crec	lits	19	

	Open Elective Courses (O) (Any 3 Courses)				
Course Code	Course Title		ours Vee		
Code	Tille	L	Τ	Ρ	O
21CEO301T	Maintenance and Rehabilitation of Structures	3	0	0	3
21CEO302T	Disaster Resistant Structures	3	0	0	3
21CEO303T	Smart City and Infrastructure	3	0	0	3
21CEO304T	Real Estate Management	3	0	0	3
21CEO305T	Project Management	3	0	0	3
21CEO306T	Environmental Impact Assessment	3	0	0	3
21CEO307T	Municipal Solid Waste Management	3	0	0	3
21CEO308T	Disaster Mitigation and Management	3	0	0	3
21CEO309T	Water Pollution and its Management	3	0	0	3
21CEO310T	Global Warming and Climate Change	3	0	0	3
21CEO311T	Indoor and Ambient Air Quality Management	3	0	0	3
21CEO312T	Intelligent Transportation Systems	3	0	0	3
21CEO313T	Traffic Management Systems	3	0	0	3
21CEO314T	Traffic flow Modeling and Simulation Techniques	3	0	0	3
21CEO315T	Viscoelasticity	3	0	0	3
21CEO316T	Soil Sciences	3	0	0	3
21CEO317J	Rural Development and Technology	2	0	2	3
21CEO318T	Floods and Flood Management	3	0	0	3
21CEO319T	Climate Change and Water Resources Management	3	0	0	3
		77	•		
	Professional Elective Courses (E)				

		_	-		_
	Professional Elective Courses (E) (Any 7 Courses)	-			
Course Code	Course Title		ours Vee		С
	Professional Elective – 1	_	•	<u> </u>	
21CEE301T	Foundation Engineering and Design	3	0	0	3
21CEE302T ²	Geotechnical Design	3	0	0	3
21CEE303T	Ground Improvement Techniques	3	0	0	3
21CEE304T	Foundation on Expansive Soil	3	0	0	3
	Professional Elective – 2				
21CEE305T	Solid and Hazardous Waste Management	3	0	0	3
21CEE306T	Air and Noise Pollution Control	3	0	0	3
21CEE307T	Environmental Impact Assessment and Life Cycle Analysis	3	0	0	3
	Professional Elective – 3			•	
21CEE308T	Pavement analysis and design	3	0	0	3
21CEE309T	Railway, Airport and Harbour Engineering	3	0	0	3
21CEE310T	Traffic Engineering	3	0	0	3
21CEE311T	Pavement Construction Technology	3	0	0	3
21CEE312T	Computer Application in Highway Engineering	3	0	0	3
	Professional Elective – 4				
21CEE401T	Advanced Pre-stressed Concrete	3	0	0	3
21CEE402T ²	Earthquake Resistant Design of Structures	3	0	0	3
21CEE403T	Design of Steel Concrete Composite Structures	3	0	0	3

		Open Elective Courses (O)				
	Course Code	Course Title		ours Vee		
	Code	Title	L	Т	Ρ	С
	21CEO320T	Principles of Satellite Remote Sensing	3	0	0	3
	21CEO321T	Spatial Information System	3	0	0	3
	21CEO322T	Remote sensing and GIS applications in Engineering	3	0	0	3
ı	21CEO323T	Spatial technology in Engineering	3	0	0	3
	21CEO324T	GIS and Spatial Analysis	3	0	0	3
ı	21CEO325T	Web GIS	3	0	0	3
ı	21CEO401T	Building Materials	3	0	0	3
	21CEO402T	Introduction to Environmental Studies	3	0	0	3
	21CEO403T	Integrated Waste Management	3	0	0	3
	21CEO404T	Principles of Sustainable Development	3	0	0	3
	21CEO405T	Road Safety and Audit	3	0	0	3
	21CEO406T	Transportation Systems	3	0	0	3
	21CEO407T	Rheology of Complex Materials	3	0	0	3
	21CEO408T	Water Conservation and Management	3	0	0	3
	21CEO409T	Water Quantity and Quality	3	0	0	3
	21CEO410T	Remote Sensing Surveying	3	0	0	3
	21CEO411T	Introduction to GIS and data	3	0	0	3
	21CEO412T	Web and Mobile GIS	3	0	0	3
	21CEO413T	Digital Mapping	3	0	0	3
		To	tal (Cred	dits	09

	Professional Elective Courses (E)						
Course Code	Course Title		ours Vee				
Code	Title	L	Τ	Р	С		
	Professional Elective – 5						
21CEE404T	Surface Hydrology	3	0	0	3		
21CEE405T	Groundwater Engineering	3	0	0	3		
21CEE406T ²	3	0	0	3			
21CEE407T	Advance Hydraulic Engineering and Design	3	0	0	3		
	Professional Elective – 6						
21CEE408T	Fundamentals of Remote Sensing and GIS	3	0	0	3		
21CEE409T 2	GIS and its Techniques	3	0	0	3		
	Professional Elective – 7						
21CEE410T	Construction Equipment and Automation	3	0	0	3		
21CEE411T	Contracts Management	3	0	0	3		
21CEE412T	Repairs and Rehabilitation techniques	3	0	0	3		
21CEE413T	Sustainable Construction Methods	3	0	0	3		
21CEE414T	BIM in Construction Management	3	0	0	3		
21CEE415T	Modern Civil Engineering Economics	3	0	0	3		
	Т	otal	Cre	dits	21		

16. (f) Programme Articulation: B.Tech. in Civil Engineering

16. (1) P	rogramme Articulation: B. I ech. ii	01	V 11 11	ıngıı			ım Ou	tcome	s (PO))					PSO	
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
Course Code	Course Name	Engineering Knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of complex problems	Modern Tool Usage	The engineer and society	Environment &	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PSO-1	PSO-2	PSO-3
	Applied Geology	2.6						2.6						3		3
	Mechanics of Structures	3	3		3	1 .								3		
	Building Materials in the Built Environment	3				2	2.5	3		-				3		
	Hydro Mechanics and Hydraulic Engineering	3	3											3		
	Fluid Mechanics and Machinery Laboratory	3	3			•				3				3		3
	Engineering Surveying	3	3			3	-						_	3		_
	Surveying Laboratory	3	3	_	0	3		0		- 1		٠	3	3	3	3
	Environmental Engineering and Design	_3	0	3	2		2	3	4		-	_		3		_
	Environmental Engineering Laboratory	3	2					3		4		4		3	\vdash	3
	Structural Engineering Design-I	3	2					3	-					3		
21CEC204L	Concrete Technology and Strength of Materials Laboratory	2.8	3						_	3	2		3	3	L.	3
	Geomechanics Company of the Company	3	3	2	147					1		٨.	1	3		
	Geomechanics Laboratory	3	3							3		7		3		3
	Irrigation and Water Resources Engineering	3	3	2	2			•			-	_		3		
	Concrete Technology and Special Concrete	3	2.2	3			2	3					2	3	0	
	Structural Analysis	2.8	3		2	0.0	157.5			_		-	0	3	3	
	Computer-Aided Civil Engineering Laboratory	2.8	2	_	2.8	2.8				3			3	3	3	3
	Structural Engineering Design-II	3	3	3	0.0					_			3	3		
	Transportation Engineering	2.8	3	2.8	2.8				9.7	1	-		4	3	2	2
	Transportation Engineering Laboratory	3	3		44	μ.				3		2		3	3	3
	Construction Engineering and Management	3	2.8	2.5		- 7.		4	-			3		3		3
	Foundation Engineering and Design Geotechnical Design	3 =	3	3				100	-					3		
	Ground Improvement Techniques	3	2.2	J	2	1.0				-				3		
	Foundation on Expansive Soil	3	2.3	2.5					-					3		
	Solid and Hazardous Waste Management	3	2.0	2.0		2	2	- 3	-					3		_
21CEE306T	Air and Noise Pollution Control	2.8				2	2	2.8				-		3		
21CEE307T	Environmental Impact Assessment and Life	3					2	3	2		7	2	Ę	3		
210552097	Cycle Analysis Pavement Analysis and Design	3	2.6	2.5	2.5	3					-			3		
	Railway, Airport and Harbour Engineering	3	2.8	2.6	2.6	3						1		3		
	Traffic Engineering	3	2.4	2.75	2.75		2							3		
	Pavement Construction Technology	2.8	3	2.70	2.70				2		. 6			3		
	Computer Application in Highway Engineering	3	2	3	-3	3			L		-	7		3	3	
	Advanced Pre-stressed Concrete	3	3	3	2	Ť				175	10	-		3	Ū	
21CEE402T	Earthquake Resistant Design of Structures	3	3	3	2	3	3	2.5	2	D			2	3		
21CEE403T	De <mark>sign of Steel C</mark> oncrete Composite Structures	3	2.8	2.8	2.8								3	3		1
21CEE404T	Surface Hydrology	3	3			3				1	, iii		3	3		
21CEE405T	Groundwater Engineering	3	3									100		3		
21CEE406T	Design of Hydrau <mark>lic Structures and Irri</mark> gation Engineering	3	3	3	3									3		Ī
21CEE407T	Advance Hydraulic Engineering and Design	3	3	3	3	and the	. g. 4		-					3		
21CEE408T	Fundamentals of Remote Sensing and GIS	3		1 6 1		3								3	3	
	GIS and its Techniques	3				2.4		3						3	3	
	Construction Equipment and Automation	3	2.8		1.8	2		3	2	2.8	2.8	3	2.4	3		
	Contracts Management	3	2.6				2.2		3	2.6	2	1.2	2	3		
21CEE412T	Repairs and Rehabilitation Techniques	3	2	2		3							2	3		
	Sustainable Construction Methods	3						3				3	2	3		
	BIM in Construction Management	3		1		2.3	C -	_				2.4		3	3	
	Modern Civil Engineering Economics	3			_	2	2.5	3	_	_	^	_		3		^
21CEP302L		3	2	2	3	3	3	1	3	3	3	3	3	3	3	3
21CEP303T		3	2	2	3	3	3	1	3	3	3	3	3	3	3	3
	Major Project	3	2	2	3	3	3	1	3	3	3	3	3	3	3	3
21CEP402L		3	2	2	3	3	3	1	3	3	3	3	3	3	3	3
L	Program Average		l	<u> </u>	l		<u> </u>									

16. (g) Implementation Plan: B.Tech. in Civil Engineering

Semester - IV Semester - IV		1 1 1 0 0 0 0	0 2 0 2 0 4 2 2 2	3 2 4 5 3 4 2
Code	1 3 3 3 3 2 0 0	1 1 0 1 1 0 0 0 0	0 2 0 2 0 2 0 4 2	3 2 4 5 3 4 2 2
21LEH101T Calculus and Linear Algebra 2 0 0 3 21LEH102T Calculus and Linear Algebra 3 1 0 4 21LEH103T French 21PY9104J Physics : Mechanics 3 1 0 4 21LEH103T Japanese 21LEH103T Japan	2 1 3 3 3 2 0 0	1 1 1 0 0 0 0	0 2 0 2 0 4 2	3 2 4 5 3 4 2 2
	1 3 3 3 2 0 0	0 1 1 0 0 0 0	2 0 2 0 2 0 4 2	2 4 5 3 4 2
21/24/1002 Physics: Mechanics 3 1 2 5 21/24/1002 Engineering Graphics and Design 0 0 4 2 21/24/1002 21/24/24/1002 21/2	1 3 3 3 2 0 0	0 1 1 0 0 0 0	2 0 2 0 2 0 4 2	2 4 5 3 4 2
21/ES101T Electrical and Electronics Engineering 3 1 0 4 2 21/ES101T Electrical and Electronics Engineering 3 1 0 4 21/ES101T Electrical and Electronics Engineering 3 1 0 4 21/ES101T Electrical and Electronics Engineering 3 1 0 4 21/ES101T Electrical and Electronics Engineering 3 1 0 4 21/ES101T Electrical and Electronics Engineering 3 1 0 4 21/ES101T Electrical and Electronics Engineering 21/ES101T Electronics	1 3 3 3 2 0 0	0 1 1 0 0 0 0	2 0 2 0 2 0 4 2	2 4 5 3 4 2
21EE/101T Electrical and Electronics Engineering 3 1 0 4 21EE/H06T Korean 21EPM/101L Professional Skills and Practices 0 0 2 0 0 0 0 0 0 0	1 3 3 3 2 0 0	0 1 1 0 0 0 0	2 0 2 0 2 0 4 2	2 4 5 3 4 2
	3 3 3 2 0 0	1 0 0 0 0 0	0 2 0 2 0 4 2	4 5 3 4 2 2
	3 3 3 2 0 0	1 0 0 0 0 0	0 2 0 2 0 4 2	4 5 3 4 2 2
Semester - III	3 3 3 2 0 0	1 0 0 0 0 0	0 2 0 2 0 4 2	4 5 3 4 2 2
Semester - III	3 3 3 2 0 0	1 0 0 0 0 0	0 2 0 2 0 4 2	4 5 3 4 2 2
Semester - III	3 3 3 2 0 0	1 0 0 0 0	2 0 4 2 2	5 3 4 2 2
Semester - III	3 3 2 0 0	0 0 0 0 0	0 2 0 4 2	3 4 2 2
Course	3 2 0 0	0 0 0 0	2 0 4 2 2	4 2 2
Course Code	3 2 0 0	0 0 0 0	2 0 4 2 2	4 2 2
Code	0 0	0 0 0	2	2
21MAB201T Transforms and Boundary Value Problems 3 1 0 4 21CEC201T Hydro Mechanics and Hydraulic Engineering 3 0 0 3 21CEC201T Fluid Mechanics and Hydraulic Engineering 3 0 0 3 21CEC202T Engineering Surveying 4 21CEC202T Engineering Surveying 4 21CEC202T Surveying Laboratory 0 0 2 1 21CEC203T Environmental Engineering and Design 3 0 0 3 21CEC203T Environmental Engineering Laboratory 0 0 2 1 21CEC203T Environmental Engineering Laboratory 0 0 2 1 21CEC203T Environmental Engineering Laboratory 0 0 2 1 21CEC203T Environmental Engineering Laboratory 0 0 0 2 1 21CEC203T Environmental Engineering Laboratory 0 0 0 2 0 2 2 2 0 3 2 2 2 0 3 2 2 2 0 3 2 2 2 2 2 2 2 3 3	0 0	0 0	2	2
21CEC201T Hydro Mechanics and Hydraulic Engineering 3 0 0 3 21CEC201L Fluid Mechanics and Machinery Laboratory 21CEC202T Engineering Surveying 3 0 0 3 21CEC202L Surveying Laboratory 0 0 2 1 21CEC203T Environmental Engineering and Design 3 0 0 3 21CEC203L Environmental Engineering Laboratory 0 0 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 2 1 21CEC203L Environmental Engineering Laboratory 0 0 2 2 1 21CEC203L Environmental Engineering Laboratory 2 1 0 3	0	0	2	
21CEC201L Fluid Mechanics and Machinery Laboratory 0 0 2 1 21CEC202T Engineering Surveying 3 0 0 3 21CEC202L Surveying Laboratory 0 0 2 1 21CEC203L Environmental Engineering and Design 3 0 0 3 21CEC203L Environmental Engineering Laboratory 0 0 2 1 21PDH209T Social Engineering Laboratory 0 0 2 1 21LEM201T Professional Ethics 1 0 0 0 2 1 21LEM202T Universal Human Values-II: Understanding Harmony and Ethical Human Conduct 2 1 0 3 21CEC203L Course Code Title Universal Human Values-II: Understanding Harmony and Ethical Human Conduct 2 1 0 3 21CEC201T Course Code Title Universal Human Values-II: Understanding Harmony and Ethical Human Conduct 2 1 0 3 21CEC201T Computer-Aided Civil Engineering 2 1 0 3 21CEC303T Structural Analysis 3 0 0 3 21CEC303T Transportation Engineering Laboratory 21CEC203T Structural Engineering Design-II 2 1 0 3 21CEC303T Transportation Engineering 3 0 0 3 21CEC303T Transportation Engineering 3 0 0 3 21CEC303T Analytical and Logical Thinking Skills 0 0 2 0 0 0 0 0 0 0	0	0	2	0
21CEC202T Engineering Surveying 3 0 0 3 21CEC202L Surveying Laboratory 0 0 2 1 21CEC203T Environmental Engineering and Design 3 0 0 3 3 21CEC203L Environmental Engineering and Design 3 0 0 3 3 21CEC203L Environmental Engineering Laboratory 0 0 2 1 21CEC203L Environmental Engineering Laboratory 0 0 0 21 21CEC203L Environmental Engineering Laboratory 0 0				
21CEC202L Surveying Laboratory				4
21CEC203T				0
Total Credits 24	tal (Cre		
Semester - IV	tai (Cre	11.4	-
21CES201T Mechanics of Structures 3 0 0 3 2 0 0 0 0 0 0 0 0 0			uits	125
Course				
21PDM201L Verbal Reasoning		Н	our	s
21LEM202T Universal Human Values-II: Understanding Harmony and Ethical Human Conduct			1	
Course Course Code Title Laboratory Computer-Aided Civil Engineering Design-II Computer-Aided Civil Engineering Design-II Concrete Technology and Special Concrete Technology			Veel	
Semester - V Course		Ļ	TIF	PC
Semester - V Course Course Code Title L T P C L T P C				2 4
Course Code Title Course Title Concrete Technology and Strength of Materials Laboratory		2	1 (0 3
Course Code				0 3
Code		0	0	2 1
21MAB301T Probability and Statistics 3 1 0 4 21CEC301T Structural Analysis 3 0 0 3 21CEC301L 1 Computer-Aided Civil Engineering Laboratory 2 1		3	0	0 3
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(Deemed to be University u/s 3 of UGC Act, 1956)

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