

DEPARTMENT OF CIVIL ENGINEERING B.Tech Civil Engineering



Year:	(2023-27)						Semester I	
Subject		Type of Course		Total Hrs				
			L	T	P	s	Credits	10tai rirs
1	Communication Skills for Engineers	I	2	0	1	0	3	4
2	Multi Variable Calculus	I	3	0	1	0	4	5
3	Semi conductor Physics / Biology for Engineers	I	3	0	1	0	4	5
4	Basic Electrical & Electronics Engg. / Engineering Graphics and Introduction to Digital Fabrication	I	3	0	1	0	4	5
5	Programming for Problem Solving - C	C	3	0	1	1	5	8
6	YOGA / Environmental Impact Analysis	Mng	2	0	0	0	0	2
	Total		16	0	5	1	20	29
Year:	(2023-27)							Semester II
Subject	Name of the Course	Type of Course		Total Hrs				
			L	Т	P	S	Credits	
1	Linear Algebra & Differential Equations	T	3	0	0	0	3	3
2	Discrete Mathematics / Engineering Mechanics	T	3	0	0	0	3	3
3	Basic Electrical & Electronics Engg. / Engineering Graphics and Introduction to Digital Fabrication	I	3	0	1	0	4	4
4	Semi conductor Physics / Biology for Engineers	I	3	0	1	0	4	5
5	Engineeering Workshop / Introduction of Digital System	I	2	0	1	0	3	4
6	OOPS	C	3	0	1	1	5	8
7	YOGA / Environmental Impact Analysis	Mng	2	0	0	0	0	2
	Total		19	0	4	1	22	29
Year:	(2023-27)							Semester III
		Type of						
Subject	Name of the Course	Course	L	T	eachin;	g Scheme S	Credits	Total Hrs
		Course		Т	P	s	Credits	
1	Mathematics-III (Functions of Complex Variables and Transforms)	Course	3	T	P	S	Credits	3
1 2	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis	Course T T	3	T 0 0	P 0 0	S 0 0	Credits 3 2	3 2
1 2 3	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials	Course T T I	3 2 3	T 0 0 0 0	P 0 0 1	8 0 0 0	Credits 3 2 4	3 2 5
1 2 3 4	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics	Course T T I	3 2 3 3	T 0 0 0 0 0	P 0 0 1 1 1	8 0 0 0	Credits 3 2 4 4	3 2 5 5
1 2 3 4 5	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying	Course T T I C	3 2 3 3 3	T 0 0 0 0 0 0 0 0	P 0 0 1 1 1 1 1	8 0 0 0 0	Credits 3 2 4 4 5	3 2 5 5 8
1 2 3 4 5 6	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering	Course T T I I I C I	3 2 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 1 1 1 1 1 1 1	8 0 0 0 0 0 1	Credits 3 2 4 4 5 3	3 2 5 5 8 5
1 2 3 4 5	Mathematics:III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building ·1	Course T T I C	3 2 3 3 3 1	0 0 0 0 0 0	P 0 0 1 1 1 1 1 1 1 1	8 0 0 0 0 0 1 0	2 4 4 5 3 2 2 4 4 4 5 2	3 2 5 5 8 5 3
1 2 3 4 5 6 7	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building -1 Total	Course T T I I I C I	3 2 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 1 1 1 1 1 1 1	8 0 0 0 0 0 1	Credits 3 2 4 4 5 3	3 2 5 5 8 5 8 5 3 28
1 2 3 4 5 6	Mathematics:III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building ·1	Course T T I I I C I T T	3 2 3 3 3 1	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 1 1 1 1 1 1 5	8 0 0 0 0 0 1 0 0	Credits 3 2 4 4 5 3 2 2 2 3	3 2 5 5 8 5 3
1 2 3 4 5 6 7	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building -1 Total	Course T T I I I C I	3 2 3 3 3 1	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 1 1 1 1 1 1 5	8 0 0 0 0 0 1 0	Credits 3 2 4 4 5 3 2 2 2 3	3 2 5 5 8 5 8 5 3 28
1 2 3 4 5 6 7 Year:	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building ·1 Total (2023-27)	Course T T I I C I T T T T C C C Course	3 2 3 3 3 1 1 16	T 0 0 0 0 0 0 0 0 0 0 0 To	P 0 0 0 1 1 1 1 1 1 1 5 Peaching	8 0 0 0 0 0 0 1 0 0 0 1 1 0 0 1 1 1 1 1	Credits 3 2 4 4 5 3 2 2 3 2 2 3	3 2 5 5 8 5 3 28 Semester IV
1 2 3 4 5 6 7 Year: Subject	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building -1 Total (2023-27) Name of the Course	Course T T T I C I T T T T T T T T T T T T T	3 2 3 3 3 1 1 16	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 T T 0	P 0 0 0 1 1 1 1 1 5 5 1 1 1 1 5 1 1 1 1 1	8 0 0 0 0 0 1 1 0 0 1 1 1 1 1 1 1 1 1 1	Credits 3 2 4 4 5 3 2 2 2 2 2 2	3 2 5 8 5 8 5 3 28 Semester IV
1 2 3 4 5 6 7 Year: Subject 1 2	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building -1 Total (2023-27) Name of the Course Probability and Statistics Hydrology & Hydraulic Systems	Course T T I I C I T T T T T T T T T T T T	3 2 3 3 3 1 1 16	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 1 1 1 1 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6	8 0 0 0 0 1 0 0 1 1 0 0 1 1 1 1 1 1 1 1	Credits 3 2 4 4 5 3 2 2 2 3 Credits 3 3 3 3	3 2 5 8 5 8 5 3 28 Semester IV Total Hrs
1 2 3 4 5 6 7 Year: Subject 1 2 3	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building ·1 Total (2023-27) Name of the Course Probability and Statistics Hydrology & Hydraulic Systems Construction Engineering	Course T T I I C I T T T T T T C T T C C T T T C	3 2 3 3 3 1 1 1 16	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 1 1 1 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 0 0 0 1 1 Scheme	Credits 3 2 4 4 5 3 2 23 23	3 2 5 8 5 8 5 8 5 3 28 Semester IV Total Hrs 3 3 8
1 2 3 4 5 6 7 Year: Subject 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building ·1 Total (2023-27) Name of the Course Probability and Statistics Hydrology & Hydraulic Systems Construction Engineering Geotechnical Engineering	Course T T I I C I T T T T T C I T T T T T T	3 2 3 3 3 1 1 16 L 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 1 1 5 5 0 0 0 0 1 1 1 1 1 1 1 1	8 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1	Credits 3 2 4 4 5 3 2 23 23	3 2 5 8 5 8 5 3 28 Semester IV Total Hrs 3 3 8 5
1 2 3 4 5 6 7 Year: Subject	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building -1 Total (2023-27) Name of the Course Probability and Statistics Hydrology & Hydraulic Systems Construction Engineering Geotechnical Engineering Remote Sensing & Geographical Information System	Course T T I I C I T T T T T T I I I I I I I	3 2 3 3 3 1 1 16 L 3 3 3 3 3 3 3 3 1 1 16	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 1 1 1 5 5 0 0 0 1 1 1 1 1 1 1 1 1 1	8 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0	Credits 3 2 4 4 5 3 2 23 Credits 3 6 4 4 4	3 2 5 8 5 8 5 3 28 Semester IV Total Hrs 3 3 8 5 5 5
1 2 3 4 5 6 7 Year: Subject 1 2 3 4 5 6 6 7 6 6 7 7 9 7 9 9 9 9 9 9 9 9 9 9 9	Mathematics III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building ·1 Total (2023-27) Name of the Course Probability and Statistics Hydrology & Hydraulic Systems Construction Engineering Geotechnical Engineering Remote Sensing & Geographical Information System Structural Analysis	Course T T I I I C I T T T T T I I I I I I I	3 2 3 3 3 1 1 16 L 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 0 0 0 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0	Credits 3 2 4 4 5 5 3 2 23 23	3 2 5 5 8 5 3 28 Semester IV Total Hrs 3 3 8 5 5 5 5
1 2 3 4 5 6 7 Year: Subject	Mathematics-III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building -1 Total (2023-27) Name of the Course Probability and Statistics Hydrology & Hydraulic Systems Construction Engineering Geotechnical Engineering Remote Sensing & Geographical Information System Structural Analysis Communication Competency & Aptitude Building -2	Course T T I I C I T T T T T T I I I I I I I	3 2 3 3 3 1 1 16 L 3 3 3 3 3 3 3 3 3 1 1	TO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0	Credits 3 2 4 4 5 3 2 23 23	3 2 5 8 5 8 5 3 28 Semester IV Total Hrs 3 3 8 5 5 5 5 5 3
1 2 3 4 5 6 7 Year: Subject 1 2 3 4 5 6 6 7 6 6 7 7 9 7 9 9 9 9 9 9 9 9 9 9 9	Mathematics III (Functions of Complex Variables and Transforms) Environmental Monitoring and Analysis Mechanics of Materials Fluid Mechanics Surveying Computer designs in Civil Engineering Communication Competency & Aptitude Building ·1 Total (2023-27) Name of the Course Probability and Statistics Hydrology & Hydraulic Systems Construction Engineering Geotechnical Engineering Remote Sensing & Geographical Information System Structural Analysis	Course T T I I I C I T T T T T I I I I I I I	3 2 3 3 3 1 1 16 L 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 0 0 0 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0	Credits 3 2 4 4 5 5 3 2 23 23	3 2 5 5 8 5 3 28 Semester IV Total Hrs 3 3 8 5 5 5 5

Subject Name of the Course Course			Type of	Teaching Scheme					
1 Design of Reinforced Concrete Structures	Subject	Name of the Course	Course	Т.		<u> </u>	<u> </u>		Total Hrs
	1	Docim of Rainfoyand Congreto Structures	I						5
9 Parapportest integrandaring									
4 Advanced Structural Analysis 7 3 0 1 0 0 3									3
Foundation Engineering									8
Forestant Electrical		·							3
7 2 0 0 0 1 7 2 1 2 2 2 2 2 2 2 2		0 0							3
Total		-						3	3
Year		•							0
Year			T		_				
Name of the Course		Total		19	0	2	2	24	25
Subject Name of the Course Course	Year:	(2023-27)							Semester VI
1 Railway, Airports and Harbour Engineering	Bubject	Name of the Course						Total Hrs	
2 Sewage Treatment Systems	-	D. Jana A. and J. H. Jana E. and and	/T						9
3 Construction Estimating and Costing									2
A Open Elective I									2
Frigram Elective - II									8
6 Civionies									3
Total		-							3
Red									3
Total			I						6
Total Total Teaching Scheme Teaching Sch									2
Name of the Course			T						3
Name of the Course		Total		16	0	5	1	21	32
Subject Name of the Course Course	Year:	(2023-27)							Semester VII
Subject Name of the Course Course			Type of		T.	achin	r Sahama		
Program Elective · III	- Subject	Norma efekta Commun	Course		10	эасши	в оспеще		Total Hrs
Program Elective · III	Jubject	Name of the Course			m	n	-	C 324	10tal rirs
2				ь		r	٥	Credits	
Subject Name of the Course Total Total	1	Program Elective · III	T	3	0	0	0	3	3
A Construction Planning & Management T 3 0 0 0 3	2	Program Elective - IV	T	3	0	0	0	3	8
5 Design of Steel Structures T 3 0 0 0 3 6 Capstone Phase · 1 0 0 0 0 0 0 0 0 0 0 0 1 Total 1.5 0 0 0 0 1.7 1 1.5 0 0 0 1.9 1.5 0 0 0 0 1.9 1.5 0 9 0 0 0 0 0 9 0 0 0 0 0 0 9 0 0 0 0 9 0 0 0 0 0 9 0 0 0 0 0 0 0 <td>3</td> <td>Program Elective - V</td> <td>T</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>3</td>	3	Program Elective - V	T	3	0	0	0	3	3
Capstone Phase-1	4	Construction Planning & Management	T	3	0	0	0	3	3
Total	5	Design of Steel Structures	T	3	0	0	0	3	8
Total	6	Capstone Phase-1		0	0	0	0	3	0
Year	7	Industrial Internship		0	0	0	0	1	0
Name of the Course Name of the Name of the Course Name of the Name		Total		15	0	0	0	19	25
Type of Course Teaching Scheme L T P S Credits	Year:	(2023-27)							Semester
Name of the Course Name of the Course L T P S Credits	1001		m	. 1					VIII
L T P S Credits 1 Capstone Phase 2	Zubiost	Name of the Course		Teaching Scheme				Total Hrs	
Total	Jubject			L	Т	P	S	Credits	
Total	1	Capstone Phase 2		0	0	0	0	9	0
Total Credits		-							0
Course C			1						
Sr.No. Course Name type L T P S C 1 Ground Improvement Techniques T 3 0 0 0 3 2 Soil Dynamics and Machine Foundation T 3 0 0 0 3 3 Structures on Expansive Soils T 3 0 0 0 3 4 Mass Transport Management T 3 0 0 0 3 5 Traffic Engineering T 3 0 0 0 3 6 Highway Pavement Design T 3 0 0 0 3 7 Pavement Constructions T 3 0 0 0 3 8 Transportation Safety and Environment T 3 0 0 0 3									
1 Ground Improvement Techniques T 3 0 0 0 3 2 Soil Dynamics and Machine Foundation T 3 0 0 0 3 3 Structures on Expansive Soils T 3 0 0 0 3 4 Mass Transport Management T 3 0 0 0 3 5 Traffic Engineering T 3 0 0 0 3 6 Highway Pavement Design T 3 0 0 0 3 7 Pavement Constructions T 3 0 0 0 3 8 Transportation Safety and Environment T 3 0 0 0 3	6					_		_	
2 Soil Dynamics and Machine Foundation T 3 0 0 0 3 3 Structures on Expansive Soils T 3 0 0 0 3 4 Mass Transport Management T 3 0 0 0 3 5 Traffic Engineering T 3 0 0 0 3 6 Highway Pavement Design T 3 0 0 0 3 7 Pavement Constructions T 3 0 0 0 3 8 Transportation Safety and Environment T 3 0 0 0 3									
3 Structures on Expansive Soils T 3 0 0 0 3 4 Mass Transport Management T 3 0 0 0 3 5 Traffic Engineering T 3 0 0 0 3 6 Highway Pavement Design T 3 0 0 0 3 7 Pavement Constructions T 3 0 0 0 3 8 Transportation Safety and Environment T 3 0 0 0 3							_		
4 Mass Transport Management T 3 0 0 0 3 5 Traffic Engineering T 3 0 0 0 3 6 Highway Pavement Design T 3 0 0 0 3 7 Pavement Constructions T 3 0 0 0 3 8 Transportation Safety and Environment T 3 0 0 0 3									
5 Traffic Engineering T 3 0 0 0 3 6 Highway Pavement Design T 3 0 0 0 3 7 Pavement Constructions T 3 0 0 0 3 8 Transportation Safety and Environment T 3 0 0 0 3									
7 Pavement Constructions T 3 0 0 0 3 8 Transportation Safety and Environment T 3 0 0 0 3	5	Traffic Engineering	T	3	0	0	0	3	
8 Transportation Safety and Environment T 3 0 0 0 3									
10 Air and Noise Pollution T 3 0 0 0 3									
11 Solid Waste Management									
12 Bioenergy Technologies T 3 0 0 0 3	12	Bioenergy Technologies		3		0]
13 Environmental Ecology T 3 0 0 0 3									
14 Rehabilitation of structures & Vaastu Principles T 3 0 0 0 3									
15 Bridge Engineering T 3 0 0 0 3 16 Earthquake Engineering T 3 0 0 0 3									
10 Earinquae Engineering									
18 Construction Planning and Management T 3 0 0 0 3]
19 Economics and Project Finance for Civil Engineers T 3 0 0 0 3	18								
20 Construction Contracts Administration and Management T 3 0 0 0 3	19	Economics and Project Finance for Civil Engineers							

Course Name stainable Transportation emography for Smart City alue Engineering and Valuation frastructure Development etropolitan Planning, Development and Management	T T T T	3 3 3	τ 0 0	P 0 0	S 0	C			
stainable Transportation emography for Smart City nlue Engineering and Valuation frastructure Development etropolitan Planning, Development and Management	T T T	3	0		0	3			
ılue Engineering and Valuation frastructure Development etropolitan Planning, Development and Management	T T	3		0	ρ	1			
ılue Engineering and Valuation frastructure Development etropolitan Planning, Development and Management	T		_			3			
frastructure Development etropolitan Planning, Development and Management		_	0	0	0	3			
etropolitan Planning, Development and Management		3	0	0	0	3			
	T	3	0	0	0	3			
IS for Smart Cities	I	3	0	1	0	4			
& ML for Smart Cities	I	3	0	1	0	4			
nart Infrastructure Systems	T	3	0	0	0	3			
Ivanced Materials for Smart Structures	T	3	0	0	0	3			
rban Planning and Management	T	3	0	0	0	3			
oun i tunning and intanagement	1	Total		·		32			
B Tech Civil Enga (With Specilization in Computer Application	ns)	Total				32			
B. Feen own Engg (with opecinization in computer Applicatio				1					
Course Name	type	L	Т	Р	S	С			
tificial Intelligence & Machine Learning Applications	C	3	0	1	1	5			
eospatial Data Analysis	I	2	0	1	0	3			
uzzy Logic in Civil Applications	I	3	0	1	0	4			
OT for Structural Health monitoring	I	3	0	1	0	4			
ATLAB Simulations for Civil Engineers	I	2	0	2	1	5			
g data analytics	T	3	0	0	0	3			
	I	2	0	2	1	5			
11 1	T	3	0	0	0	3			
g	ı	Total				32			
35 () 24 () 24 () 25 () 26	Course		·						
Course Name	type	L				С			
ransport Economics and Finance management	T			0	0	3			
					-	3			
0 /						3			
					-	3			
						3			
ransportation Network Analysis	T	3	0	0	0	3			
L and Deep learning techniques on transportation	I	3	0	1	0	4			
OT application for Traffic engineering	I	3	0	1	0	4			
ansportation and Environmental Sustainability	T	3	0	0	0	3			
B.Tech Civil Engg (With Specilization in Entrepreneurship)								
	Course								
Course Name	type	L			S	С			
· · · · · · · · · · · · · · · · · · ·						5			
1 0 11 7	_			-		5			
gal Incorporation & Incubation				1	1	5			
arket Launch and Funding	С	3	0	1	1	5			
art Up launch and Market Penetration/Managing family business	I	2	0	6	0	5			
Phavioural Science.	T	3	0	0	0	3			
range and a second a second and	Course Name ifficial Intelligence & Machine Learning Applications ospatial Data Analysis zzy Logic in Civil Applications If for Structural Health monitoring ITLAB Simulations for Civil Engineers data analytics ibile Application Development gital Twin Technology B.Tech Civil Engg (With Specilization in Transportation Engineer Course Name Insport Economics and Finance management office Flow Analysis gloway construction and Maintenance ral Road Technology Iffice Management & Design Iffice Management & Design Iffice Insportation System Insportation Network Analysis and Deep learning techniques on transportation Tapplication for Traffic engineering Insportation and Environmental Sustainability B.Tech Civil Engg (With Specilization in Entrepreneurship Course Name Provy & Practices of Entrepreneurship Insportation & Incubation Incurrence of Incurrence of Incubation Incurrence of Inc	ificial Intelligence & Machine Learning Applications Cospatial Data Analysis I Ty for Structural Health monitoring I Ty for Structural Health monitoring I I II TLAB Simulations for Civil Engineers I data analytics I data analytics I distribution Development I distribution and Maintenance I distribution and Maintenance I distribution and Maintenance I distribution and Maintenance I distribution Development I distribution Development	B.Tech Civil Engg (With Specilization in Computer Applications) Course Name type L ificial Intelligence & Machine Learning Applications	B.Tech Civil Engg (With Specilization in Computer Applications) Course Name type L T ifficial Intelligence & Machine Learning Applications C 3 0 ospatial Data Analysis I 2 0 ospatial Data Analysis I 3 0 otto C I I I I I I I I I I I I I I I I I I I	Course Name	B.Tech Civil Engg (With Specilization in Computer Applications Course L T P S			