

**CIVIL ENGINEERING DEPARTMENT, SOS, ENGINEERING & TECHNOLOGY
GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY), BILASPUR**

**SCHEME OF B.TECH.VII SEMESTER CIVIL ENGINEERING (New CBCS)
W.E.F. 2021-22 (ODD SEMESTER)**

S. No	Subject Code	Subjects	period/Week			Scheme of Evaluation				Grand Total	Credits
						Internal Assessment (IA)			ESE		
						CT-I	CT-II	Total			
		Theory	L	T	P						
1	CE07TPC17	Water Resources Engineering-II	3	0	0	15	15	30	70	100	3
2	CE07TPE02	Professional Elective -02X	3	0	0	15	15	30	70	100	3
3	CE07TPE03	Professional Elective -03X	3	0	0	15	15	30	70	100	3
4	CE07TPE04	Professional Elective -04X	3	0	0	15	15	30	70	100	3
5	CE07TPE05	Professional Elective -05X	3	0	0	15	15	30	70	100	3
6	CE07TOE02	Open Elective -02X	3	0	0	15	15	30	70	100	3
		Practical									
1	CE07PPC08	Seminar*	-	-	3	-	-	50	-	50	1.5
2	CE07PPC09	Minor project	0	0	6	-	-	60	40	100	3
3	CE07PPC10	Estimation and Costing	0	0	3	-	-	30	20	50	1.5
										Total Credits	24

L - Lecture Hours, T-Tutorial Hours, P - Practical Hours, CT - Class Test, ESE - End Semester Exam; * Seminar on Industrial Training/Internship undergone during summer vacation of 6th Semester

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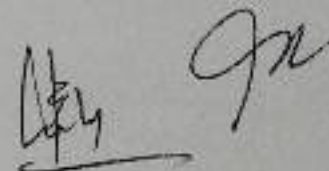
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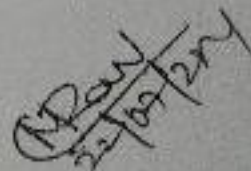
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GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY), BILASPUR**

**SCHEME OF B.TECH.VIII SEMESTER CIVIL ENGINEERING
W.E.F. 2021-22 (EVEN SEMESTER)**

S. No	Subject Code	Subjects	period/Week			Scheme of Evaluation				Grand Total	Credits
						Internal Assessment (IA)			ESE		
						CT-I	CT-II	Total			
		Theory	L	T	P						
1	CE08TPC18	Earthquake Resistant Design of structure	3	0	0	15	15	30	70	100	3
2	CE08TPE06	Professional Elective -06X	3	0	0	15	15	30	70	100	3
3	CE08TPE07	Professional Elective -07X	3	0	0	15	15	30	70	100	3
4	CE08TOE03	Open Elective -03X	3	0	0	15	15	30	70	100	3
		Practical									
1	CE08PPC11	Major Project	0	0	14	-	-	120	80	200	7
2	CE08PPC12	Structural Detailing Lab	0	0	3	-	-	30	20	50	1.5
										Total Credits	20.5

L - Lecture Hours, T-Tutorial Hours, P - Practical Hours, CT - Class Test, ESE – End Semester Exam

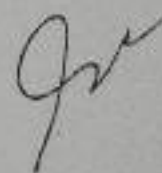
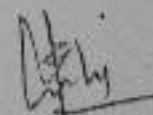




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List of Professional (Core) Electives

Sl. No.	Subject Code	Name of Subject	Credits	Semester
x	CE06TPE01X	Professional Elective-1 (PE Group-1)	4	VI
A	CE06TPE01A	Structural Analysis by Matrix Methods		
B	CE06TPE01B	Advanced Surveying		
C	CE06TPE01C	Advanced Concrete Design		
D	CE06TPE01D	Railway Engineering		
E	CE06TPE01E	Basics of Computational Hydraulics		
Sl. No.	Subject Code	Name of Subject	Credits	Semester
x	CE07TPE02X	Professional Elective-2 (PE Group-2)	3	VII
A	CE07TPE02A	Pre-stressed Concrete		
B	CE07TPE02B	Construction Engineering Materials		
C	CE07TPE02C	Disaster Preparedness and Planning		
D	CE07TPE02D	Advanced Structural Analysis		
E	CE07TPE02E	Low Cost Housing Techniques		
Sl. No.	Subject Code	Name of Subject	Credits	Semester
x	CE07TPE03X	Professional Elective-3 (PE Group-3)	3	VII
A	CE07TPE03A	Environmental Geo-technology		
B	CE07TPE03B	Air Pollution and Control Engineering		
C	CE07TPE03C	Solid and Hazardous Waste Management		
D	CE07TPE03D	Design of Hydraulic Structures		
E	CE07TPE03E	Environmental Impact Assessment and Life Cycle Analysis		
Sl. No.	Subject Code	Name of Subject	Credits	Semester
x	CE07TPE04X	Professional Elective-4 (PE Group-4)	3	VII
A	CE07TPE04A	Engineering Hydrology		
B	CE07TPE04B	Structural Dynamics		
C	CE07TPE04C	Foundation Engineering		
D	CE07TPE04D	Rock Mechanics		
E	CE07TPE04E	Water Resources Planning & Management		

Sl. No.	Subject Code	Name of Subject	Credits	Semester
x	CE07TPE05X	Professional Elective-5 (PE Group-5)	3	VII
A	CE07TPE05A	Industrial Structures		
B	CE07TPE05B	Airport Planning and Design		
C	CE07TPE05C	Highway Construction and Management		
D	CE07TPE05D	Contracts Management		
E	CE07TPE05E	Construction Projects Planning & Systems		
Sl. No.	Subject Code	Name of Subject	Credits	Semester
x	CE08TPE06X	Professional Elective-6 (PE Group-6)	3	VIII
A	CE08TPE06A	Offshore Engineering		
B	CE08TPE06B	Surface Hydrology		
C	CE08TPE06C	Bridge Engineering		
D	CE08TPE06D	Water and Air Quality Modelling		
E	CE08TPE06E	Construction Equipment & Automation		
Sl. No.	Subject Code	Name of Subject	Credits	Semester
x	CE08TPE07X	Professional Elective-7 (PE Group-7)	3	VIII
A	CE08TPE07A	Infrastructure Planning and Design		
B	CE08TPE07B	Traffic Engineering		
C	CE08TPE07C	Repair and Rehabilitation of Structures		
D	CE08TPE07D	Finite Element Analysis		
E	CE08TPE07E	Urban Hydrology and Hydraulics		


List of Open Electives

List of Open Electives			Credits	Semester
Name of Subject			3	VI
Sl. No.	Subject Code	Open Elective-1 (OE Group-1)		
x	CE06TOE01X			
A	CE06TOE01A	Metro Systems and Engineering		
B	CE06TOE01B	Rural Technology and Community Development		
C	CE06TOE01C	Remote Sensing and GIS		
D	CE06TOE01D	ICT for Development		
Name of Subject			Credits	Semester
Open Elective-2 (OE Group-2)			3	VII
Sl. No.	Subject Code			
x	CE07TOE02X			
A	CE07TOE02A	Artificial Neural Network		
B	CE07TOE02B	Economic Policies in India		
C	CE07TOE02C	History of Science and Engineering		
D	CE07TOE02D	Engineering Risk-Benefit Analysis		
Name of Subject			Credits	Semester
Open Elective-3 (OE Group-3)			3	VIII
Sl. No.	Subject Code			
x	CE08TOE03X			
A	CE08TOE03A	Management Information System		
B	CE08TOE03B	Enterprise Resource Planning		
C	CE08TOE03C	Cyber Law and Ethics		
D	CE08TOE03D	Human Resources Development and Organizational Behaviour		

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