

**CIVIL ENGINEERING DEPARTMENT
GAUTAM BUDDHA UNIVERSITY**

**Program Name: - 04 Year B. Tech.- Civil Engineering
02 Year M. Tech.- Structural Engineering
02 Year M. Tech.- Environmental Engineering**

**Batch
2022-2023**

Semester- B. Tech. I, II, III, IV, V, VI, VII, VIII and M.Tech. I, II, III, IV

S.No.	Course Name	Course Code	Credits	Theory Practical/ Dissertation	Faculty Name	Details of programs where same course is offered (if any)
B.Tech (Civil Engineering)- I Semester						
1	Human Values & Buddhist Ethics	BS101	02	Theory	GF	
2	Engineering Mathematics I	MA101	04	Theory	GF	
3	Engineering Graphics	CE103	02	Lab	Mr. Rahul Kumar	
4	Fundamental of Computer Programming	CS101	04	Theory	GF	
5	Computer Programming Lab-I	CS181	01	Lab	GF	
6	Engineering Chemistry	CY101	04	Theory	Ms. Swati Chauhan	
7	Engineering Chemistry Lab	CY103	01	Lab	Dr. Rajesh Kumar Gupta	
8	Basic Electronics Engineering	EC101	04	Theory	Mr. Rajesh Mishra	
9	Basic Electronics Lab	EC181	01	Lab	GF	
10	English Proficiency	EN101	02	Theory	GF	
B.Tech (Civil Engineering)- II Semester						
11	Engineering Physics	PH102	04	Theory	Dr. Mahesh Verma	
12	Engineering Mathematics II	MA102	04	Theory	Dr. Vikas Pawar	
13	Engineering Mechanics	ME101	04	Theory	Dr. Prashant Gill	
14	Basic Electrical Engineering	EE102	04	Theory	Dr. Ravi Kant Yadav	
15	Environmental Studies	ES101	04	Theory	Dr. Sarita Joshi	
16	Workshop	ME102	02	Lab	Dr. Prashant Gill	
17	Engineering Physics Lab	PH104	01	Lab	Dr. Mahesh Verma	
18	Basic Electrical Engg. Lab	EE104	01	Lab	Dr. Kirti Pal	
19	Language Lab	EN151	01	Lab	Dr. Kalpana Mishra	

B.Tech (Civil Engineering)- III Semester

20	Engineering Mathematics-III	MA201	04	Theory	Dr. Amit Ujlayan	
21	Building Material and Construction	CE 201	04	Theory	Ms. Istuti Singh	
22	Mechanics of Material	CE 205	04	Theory	Mr. Manish Singh Kushwaha	
23	Engineering Geology	CE 209	02	Theory	Ms. Istuti Singh	
24	Surveying-1	CE 207	04	Theory	Dr. Shobha Ram	
25	Fluid Mechanics	CE 203	04	Theory	Mr. Chitransh Sharma	
26	Fluid Mechanics Lab	CE 213	01	Lab	Mr. Chitransh Sharma	
27	Concrete Lab	CE211	01	Lab	Mr. Vikas Prabhakar	
28	Material Testing Lab	CE 215	01	Lab	Dr. Rohit Ralli	
29	Surveying Lab-1	CE 217	01	Lab	Dr. Shobha Ram	

B.Tech (Civil Engineering) - IV Semester

30	Advance English Proficiency	EN 332	03	Theory	Dr. Kirti Sachdeva	
31	Engineering Hydrology	CE 202	04	Theory	Mr. Manish Singh Kushwaha	
32	Environmental Engineering	CE 204	04	Theory	Mr. Vikas Prabhakar	
33	Structure Analysis-I	CE 206	04	Theory	Mr. Chitransh Sharma	
34	Advanced Surveying	CE 210	04	Theory	Dr. Anju Agarwal	
35	Estimating and Costing	CE 208	03	Theory	Mr. D. K. Varshney	
36	Environmental Engineering Lab	CE 212	01	Lab	Dr. Mahd Zia	
37	Engineering Drawing Lab	CE 214	01	Lab	D. K. Varshney	
38	Structure Analysis Lab	CE 216	01	Lab	Mr. Chitransh Sharma	
39	Advanced Surveying Lab	CE 218	01	Lab	Mr. Manish Singh Kushwaha	

B.Tech (Civil Engineering) - V Semester

40	Transportation Engineering-1	CE 303	04	Theory	Mr. Manish Singh Kushwaha	
41	Design of RC Structure	CE 301	04	Theory	Mr. Chitransh Sharma	
42	Soil Mechanics	CE 305	04	Theory	Ms. Istuti Singh	
43	Structure Analysis-II	CE 307	04	Theory	Dr. Anju Agarwal	
44	Advanced Environmental Engineering	CE 309	04	Theory	Dr. Mohd. Zia	

45	Transportation Engineering Lab	CE 311	01	Lab	Mr. Manish Singh Kushwaha	
46	Soil Mechanics Lab	CE 313	01	Lab	Ms. Istuti Singh	
47	Advanced Environmental Engineering Lab	CE 315	01	Lab	Dr. Mohd. Zia	
48	Language, Culture and Society	EN531	03	Theory	Ms. Manjari Suman	
B.Tech (Civil Engineering)- VI Semester						
49	Transportation Engineering-II	CE 302	04	Theory	Mr. D. K. Varshney	
50	Design of Advanced RC Structure	CE 304	04	Theory	Mr. Rahul Kumar	
51	Open Channel Flow	CE 306	04	Theory	Mr. Chitransh Sharma	
52	Design of Steel structure	CE 308	04	Theory	Mr. Rahul Kumar	
53	Foundation Engineering	CE 310	04	Theory	Mrs. Istuti Singh	
54	Energy Efficiency & Conservation	EE 324	03	Theory	Mr. Satyaveer Gupta	
55	CAD Lab	CE 312	01	Lab	Dr. Rohit Ralli	
56	Design Lab	CE 314	01	Lab	Dr. Anju Agarwal	
B.Tech (Civil Engineering) - VII Semester						
57	Advanced Geotechnical Engineering	CE 407	04	Theory	Dr. Rohit Ralli	
58	SWM & Air Pollution Control	CE 417	04	Theory	Mr. Chitransh Sharma	
59	Engineering Optimization	MA416	03	Theory	Dr. Meenakshi	
60	Irrigation Engineering	CE 401	04	Theory	Mr. Rahul Kumar	
61	Renewable Energy Source	EE425	03	Theory	Ms. Tripti Kunj	
62	Project -I	CE420	04	Project	Dr. Shobha Ram	
63	Industrial Training	CE423	02	Training	Dr. Shobha Ram	
64	Seminar	CE425	02	Training	Dr. Shobha Ram	
B.Tech (Civil Engineering) VIII Semester						
65	Construction Planning and Management	CE 402	04	Theory	Dr. Mahd Zia	
66	Earthquake Resistance Design of Structure	CE 404	04	Theory	Dr. Rohit Ralli	
67	Design of Hydraulic structure	CE 412	04	Theory	Mr. Chitransh Sharma	
68	Project	CE 421	08	Project	Dr. Shobha Ram	

02 Year M. Tech (Structural Engineering) - I Semester

69	Advanced Construction Material	CE 541	03	Theory	Ms. Manisha Bhati	
70	Applied Elasticity and Plasticity	CE 543	03	Theory	Mr. Vikas Prabhakar	
71	Structural Dynamics	CE 545	03	Theory	Dr. Anju Agarwal	
72	Finite Element Method	CE 547	03	Theory	Dr. Rohit Ralli	
73	Green Building Rating-I	SA107	03	Theory	G.F.	
74	Simulation & Modelling	MA 402	04	Theory	G.F.	
75	Seminar	CE511	02	Seminar	Dr. Shobha Ram	
76	CAD Lab	CE 511	02	Lab	Dr. Anju Agarwal	

02 Year M. Tech (Structural Engineering) - II Semester

77	Pre-stressed Concrete	CE 542	04	Theory	Dr. Rohit Ralli	
78	Advanced Structure Analysis	CE 544	03	Theory	Mr. Vikas Prabhakar	
79	Advanced Concrete Design	CE 546	04	Theory	Dr. Rohit Ralli	
80	Bridge Design	CE 548	04	Theory	Dr. Anju Agarwal	
81	Earthquake Resistance Design of Structure	CE 554	04	Theory	Dr. Rohit Ralli	
82	Structure Analysis Lab	CE 556	01	Practical	Mr. Vikas Prabhakar	
83	Project	CE 516	05	Project	Dr. Shobha Ram	

02 Year M. Tech (Structural Engineering) - III Semester

84	Advanced Steel Design	CE 643	04	Theory	Mr. Vikas Prabhakar	
85	Plates and Shell	CE641	03	Theory	Mr. Vikas Prabhakar	
86	Hydraulic Structures	CE647	04	Theory	Mr. Rahul Kumar	
87	Dissertation Part-I	CE617	08	Project	Dr. Shobha Ram	

02 Year M. Tech (Structural Engineering) - IV Semester

88	Dissertation	CE 620	22	Project	Dr. Shobha Ram	
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02 Year M. Tech (Environmental Engineering) - I Semester

89	Energy & Environment	CE501	03	Theory	Ms. Manisha Bhati	
90	Remote Sensing & GIS	CE503	03	Theory	Dr. Rohit Ralli	
91	Water treatment Process	CE505	03	Theory	Dr. Mohd. Zia	
92	Environmental chemistry & Microbiology	CE507	03	Theory	Dr. Mohd. Zia	

93	Remote Sensing & GIS Lab	CE509	02	Lab	Dr. Rohit Ralli	
94	Simulation & Modelling	MA 402	04	Theory	G.F.	
95	Green Building Rating-I	SA107	03	Theory	G.F.	
02 Year M. Tech (Environmental Engineering) - II Semester						
96	Biological processes of Waste Water	CE502	04	Theory	Dr. Mahd Zia	
97	Air and Noise Pollution	CE506	04	Theory	Mr. Manish Singh Kushwaha	
98	Advance Hydrology	CE508	04	Theory	Dr. Shobha Ram	
99	Urban Water Management	CE510	03	Theory	Dr. Mahd Zia	
100	Solid and Hazardous Waste	CE504	04	Theory	Mr. D. K. Varshney	
101	Waste and Waste Water Analysis Lab	CE514	02	Lab	Mr. Manish Singh Kushwaha	
102	Project	CE516	05	Project	Dr. Shobha Ram	

Dr. Shobha Ram
HOD, CED