

**THIAGARAJAR COLLEGE OF ENGINEERING**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**PERCENTAGE OF REVISION OF B.E. CIVIL ENGINEERING CURRICULUM 2014-2015**

		Curriculum 2013-2014			Curriculum 2014-2015		
Sl. No.	Course Code	Course Name	Change Details	% of Change	weightage	Course Code	Course Name
1	H11	Engineering mathematics -I		10	0.1	14MA110	Engineering Mathematics -I
2	H12	Physics		10	0.1	14PH120	Physics
3	H13	Chemistry		10	0.1	14CH130	Chemistry
4	H14	English		10	0.1	14EG140	English Communication
5	H15	Basics of Mechanical and Civil Engineering		10	0.1	14ES150	Basics of Civil and Mechanical Engineering
6	H16	Basics of Electrical and Electronics Engineering		10	0.1	14ES160	Basics of Electrical and Electronics Engineering
7	B 21	Engineering Mathematics II		25	0.25	14CE210	Engineering Mathematics II
8	B 22	Strength of Materials 1		20	0.2	14CE220	Strength of Materials
9	B 23	Engineering Geology		20	0.2	14CE240	Engineering Geology
10	B 24	Computers and Programming	New/ changed	100	1	14CE360	Problem solving using Computer
11	B 25	Materials Science		10	0	14CE250	Environmental Science
12	B 26	Construction Materials and Technology	New/ changed	100	1	14CE270	Building Materials and Technology
13	B 31	Engineering Mathematics III		10	0.1	14CE310	Fourier Series and Partial Differential Equations
14	B 32	Strength of Materials II		10	0.1	14CE320	Mechanics of Solids
15	B 33	Surveying		15	0.15	14CE230	Surveying
16	B 34	Fluid Mechanics		20	0.2	14CE330	Fluid Mechanics
17	B 35	Data Structures	Removed	0	0		
18	B 36	Concrete Technology		10	0.1	14CE350	Concrete Technology
19	B 41	Probability and Statistics		15	0.15	14CE410	Mathematics IV
20	B 42	Water Supply Engineering		10	0.1	14CE340	Water Supply Engineering
21	B 43	Structural Analysis – I		20	0.2	14CE420	Structural Analysis
22	B 44	Structural Design- I	Removed	0	0		
23	B 45	Hydraulics and Hydraulic Machinery		10	0.1	14CE430	Hydraulics and Hydraulic Machinery
24	B 46	Ecology	Removed	0	0		
25	B 51	Numerical Methods		10	0.1	14CE510	Mathematics V
26	B 52	Wastewater Engineering		15	0.15	14CE440	Wastewater Engineering
27	B 53	Structural Analysis - II	Removed	0	0		
28	B 54	Design of Steel Structures		10	0.1	14CE670	Design of Steel Structures
29	B 55	Irrigation and Water Resources Engineering		10	0.1	14CE640	Irrigation and Water Resource Engineering
30	B 56	Geotechnical Engineering - I		15	0.15	14CE530	Soil Mechanics
31	B 61	Accounting and Finance		10	0.1	14CE710	Accounting and Finance
32	B 62	Highway Engineering		30	0.3	14CE540	Highways and Pavement Engineering
33	B 63	Foundation Engineering		20	0.2	14CE630	Foundation Engineering
34	B 64	Design of Reinforced Concrete Elements		10	0.1	14CE610	Design of RC Elements
35	B 71	Management Theory and Practice	Removed	0	0		
36	B 72	Estimation and Construction Management	New/ changed	100	1	14CE780	Estimation and Costing (lab)
37	B 78	Project Phase I	Removed	0	0		

38	B 84	Project Phase II		10	0.1	14CE880	Project
39			New	100	1	14CE770	Design of RC Structures
40			New	100	1	14CE720	Project Managements
41			New	100	1	14CE570	Design of Masonry, Timber and Steel Elements
42			New	100	1	14CE450	Engineering Design
<b>Laboratories</b>							
43	H17	Physics Lab		10	0.1	14PH180	Physics Laboratory
44	H18	Chemistry Lab		10	0.1	14CH190	Chemistry Laboratory
45	H19	Engineering Graphics		10	0.1	14ME170	Engineering Graphics
46	B 27	Strength of Materials Lab		30	0.3	14CE580	Material testing Lab
47	B 28	Computer Programming Lab		20	0.2	14CE480	Computer programming lab
48	B 29	Workshop		10	0.1	14CE290	Workshop
49	B 37	Survey Lab-I		10	0.1	14CE280	Survey Lab I
50	B 38	Concrete Lab	Removed	0	0		
51	B 47	Survey Lab- II		10	0.1	14CE390	Survey Lab II
52	B 48	Fluid Mechanics & Machinery Lab		10	0.1	14CE490	Fluid Mechanics and Machinery lab
53	B 49	Professional Communication		30	0.3	14CE470	Professional Communication (Theory Cum Practical)
54	B 57	Geotechnical Engineering Lab		35	0.35	14CE680	Soil & highway Engineering Lab
55	B 58	Environmental Engineering Laboratory		20	0.2	14CE590	Environmental Engineering Laboratory
56	B67	Highways and Traffic Engineering Lab	Removed	0	0		
57	B68	Structural Design and Detailing	Removed	0	0		
58	B69	Computer Aided Drafting			0	14CE380	Computer Aided Drafting Lab
59				100	1	14CE4C0	Capstone course I
60				100	1	14CE7C0	Capstone course II
<b>Electives</b>							
61	BCA	Finite Element Analysis		10	0.1	14CEPC0	Finite Element Analysis
62	BCB	Computational Methods of Structural Analysis	Removed		0		
63	BCC	Structural Dynamics		20	0.2	14CEPE0	Dynamics of structures
64	BCD	Hydrology		15	0.15	14CE520	Engineering Hydrology
65	BCE	Municipal Solid Waste Management		20	0.2	14CEPA0	Municipal Solidwaste Management
66	BCF	Pre stressed Concrete		15	0.15	14CEPF0	Pre-Stressed Concrete
67	BCG	Design of Reinforced Concrete Structures		15	0.15	14CEPT0	Design of Reinforced Concrete Structures
68	BCH	Repair and Rehabilitation of Structures	New/ changed	20	0.2	14CEPG0	Repair and Rehabilitation of structures
69	BCJ	Railways, Airport, Docks and Harbours		15	0.15	14CE620	Railways , Airways & water ways
70	BCK	Air and Noise Pollution		15	0.15	14CEPB0	Air and Noise Pollution Management
71	BCL	Ground Improvement Technique		10	0.1	14CEPH0	Ground improvement techniques
72	BCM	Remote sensing and GIS		15	0.15	14CEPD0	Basics of Remotesensing
73	BCN	Traffic Engineering and Management		10	0.1	14CEPJ0	Traffic Engineering and Safety
74	BCP	Environmental Impact Assessment		20	0.2	14CEPK0	Environmental impact assesment
75	BCQ	Bridge Engineering		20	0.2	14CEPL0	Bridge Engineering
76	BCR	Earthquake Engineering		15	0.15	14CEPM0	Earthquake Engineering
77	BCS	Instrumentation in Civil Engineering		10	0.1	14CEPS0	Instrumentation for civil Engineering
78	BCT	Engineering Fracture Mechanics		20	0.2	14CEPR0	Fracture mechanics
79	BCU	Human Settlement Planning	Removed		0		

80	BCV	Optimization Techniques in Civil Engineering	Removed		0		
81			New	100	1	14CEPN0	Disaster mitigation and management
82			New	100	1	14CEPP0	Building planning and services
83			New	100	1	14CEPQ0	Construction Management
84			New	100	1	14CEPU0	Ground water management
85			New	100	1	14CEPV0	Prefabricated Structures
86			New	100	1	14CEPW0	Waste management
87			New	100	1	14CERA0	Aseismic design of Structures
88			New	100	1	14CERB0	Expremental Techniques and instrumentation
89			New	100	1	14CERC0	Computer aided design
90			New	100	1	14CERD0	Resources and Energy recovery from waste
91			New	100	1	14CERE0	Industrial Waste Water Management
92			New	100	1	14CERF0	Sustainable management of urbon Ecology
93			New	100	1	14CERG0	Organizational behaviour
94			New	100	1	14CERH0	Construction equipment management
95			New	100	1	14CERJ0	Management of human resource, safety and quality
96			New	100	1	14CE1A0	Practical Valuation
97			New	100	1	14CE1B0	Arbitration and Dispute Resolution
98			New	100	1	14CE1C0	Durability of concrete Structures
99			New	100	1	14CE1D0	Green Construction
100			New	100	1	14CE1E0	Precaste Technology in buildings
101			New	100	1	14CE1F0	Framming of Structures and optimum Foundation systems
102			New	100	1	14CE1G0	Large scale system planning
103			New	100	1	14CE1H0	Interior Design
104			New	100	1	14CE1J0	Corroton of RC Structures
<b>General Elective</b>							
105	BGA	Sustainable Development			0	14CEGA0	Sustainable Development
106	BGB	Project Management	New/ changed	100	1	14CEGD0	Project management
107	BGC	Disaster Mitigation and Management		10	0.1	14CEGC0	Disaster assesment and mitigation measures
108	BGD	Building Planning and Services			0	14CEGB0	Building Planning and Services
109	BGE	Road Safety		50	0.5	14CEGE0	Road safety
110	BGF	Climate science and policy	New/ changed	20	0.2	14CEGF0	Climate change and policy
<b>Total Weightage</b>					43.35		
<b>Total Change in %</b>					54.1875		