Mahatma Gandhi University Revised Scheme For B Tech Syllabus Revision 2010 (Civil Engineering)

Common for All Branches
SCHEME S1&S2

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
EN010 101	Engineering Mathematics I	2	1	-	50	100	3	5
EN010 102	Engineering Physics	1	1	-	50	100	3	4
EN010 103	Engineering. Chemistry & Environmental Studies	1	1	-	50	100	3	4
EN010 104	Engineering Mechanics	3	1	-	50	100	3	6
EN010 105	Engineering Graphics	1	3	-	50	100	3	6
EN010 106	Basic Civil Engineering	1	1	-	50	100	3	4
EN010 107	Basic Mechanical Engineering	1	1	-	50	100	3	4
EN010 108	Basic Electrical Engineering	1	1	-	50	100	3	4
EN010 109	Basic Electronics Engineering. & Information Technology	2	1	-	50	100	3	5
EN010 110	*Mechanical Workshop*	-	-	3	50	-	3	1
EN110 111	*Electrical and Civil Workshops*	-	-	3	100	-	3	1
	Total	**13**	**11**	**6**			**30**	**44**

3rd Semester

Code	Subject	Hours/week			Marks		End-sem duration hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
EN010 301	Engineering Mathematics II	2	2	-	50	100	3	4
EN010 302	Economics and Communication Skills	2	2	-	50	100	3	4 (3+1)
CE010 303	Fluid Mechanics	2	2	-	50	100	3	4
CE010 304	Mechanics of Solids I	3	1	-	50	100	3	4
CE010 305	Surveying I	3	1	-	50	100	3	4
CE010 306	Engineering Geology	3	1		50	100	3	4
CE010 307	*Material Testing Lab I*	-	-	3	50	100	3	2
CE010 308	*Surveying Practical I*	-	-	3	50	100	3	2
	Total	**15**	**9**	**6**				**28**

4th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
EN010 401	Engineering Mathematics III	2	2	-	50	100	3	4
CE010 402	Construction Engineering and Management	3	1	-	50	100	3	4
CE010 403	Mechanics of Solids II	2	2	-	50	100	3	4
CE010 404	Open Channel Flow and Hydraulic Machines	3	1	-	50	100	3	4
CE010 405	Surveying II	3	1	-	50	100	3	4
CE010 406	Civil Engineering Drawing			4	50	100	3	4
CE010 407	*Surveying Practical II*	-	-	3	50	100	3	2
CE010 408(ME)	*Hydraulics Lab*	-	-	3	50	100	3	2
	Total	**16**	**8**	**6**				**28**

5th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
EN010 501A	Engineering Mathematics IV	**2**	**2**	-	**50**	**100**	3	4
CE010 502	Computer Programming	**3**	**1**		**50**	**100**	3	4
CE010 503	Design of Concrete Structures I	2	2	-	50	100	3	4
CE010 504	Geotechnical Engineering I	3	1	-	50	100	3	4
CE010 505	Quantity Surveying and Valuation	3	1	-	50	100	3	4
CE010 506	Structural Analysis I	3	1	-	50	100	3	4
CE010 507	*Computing Techniques Lab*	-	-	3	50	100	3	2
CE010 508	*Geotechnical Engineering Lab*	-	-	3	50	100	3	2
	Total	**16**	**8**	**6**				**28**

6th Semester

Code	Subject	Hours/week			Marks		End-sem duration -hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
CE010 601	Design of Steel Structures	2	2	-	50	100	3	4
CE010 602	Geotechnical Engineering II	2	2	-	50	100	3	4
CE010 603	Structural Analysis II	3	1	-	50	100	3	4
CE010 604	Transportation Engineering I	3	1	-	50	100	3	4
CE010 605	Water Resources Engineering	3	1	-	50	100	3	4
CE010 606Lxx	Elective I	2	2	-	50	100	3	4
CE010 607	Computer Aided Design and Drafting Lab	-	-	3	50	100	3	2
CE010 608	*Material Testing Lab II*	-	-	3	50	100	3	2
	Total	**15**	**9**	**6**				**28**

Elective I

CE010 606L01 Advanced Surveying
CE010 606L02 Open Channel and Coastal Hydraulics
CE010 606L03 Airport Engineering
CE010 606L04 Advanced Mechnics of Materials
CE010 606L05 Concrete Technology
CE010 606L06 Soil Stability Analysis.

7th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
CE010 701	Design of Hydraulic Structures	2	2	-	50	100	3	4
CE010 702	Environmental Engineering I	2	2	-	50	100	3	4
CE010 703	Design of Concrete Structures II	2	1	-	50	100	3	3
CE010 704	Architecture and Town Planning	2	1	-	50	100	3	3
CE010 705	Transportation Engineering II	2	1	-	50	100	3	3
CE010 706Lxx	Elective II	2	2	-	50	100	3	4
CE010 707	Computer Applications Lab	-	-	3	50	100	3	2
CE010 708	*Transportation Engineering Lab*	-	-	3	50	100	3	2
CE010 709	Seminar	-	-	2	50	-	-	2
CE010 710	*Project*	-	-	1	50	-	-	1
	Total	**12**	**9**	**9**				**28**

Elective II

CE010 706L01 Building Automation and Smart Structures
CE 010 706L02 Ground Improvement Technicques
CE 010 706L03. Prestressed Concrete.
CE 010 706L04 Environmental Impact Assessment
CE 010 706L05 Theory of Plates and Shells
CE 010 706L06 Traffic Engineering and Management

8th Semester

Code	Subject	Hours/week			Marks		End-sem duration -hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
CE010 801	Advanced Structural Design	3	2	-	50	100	3	4
CE010 802	Building Technology and Management	2	2	-	50	100	3	4
CE010 803	Environmental Engineering II	2	2	-	50	100	3	4
CE010 804Lxx	Elective III	2	2	-	50	100	3	4
CE010 805Gxx	Elective IV	2	2	-	50	100	3	4
CE010 806	Environmental Engineering Lab	-	-	3	50	100	3	2
CE010 807	Project	-	-	6	100	-	-	4
CE010 808	Viva Voce	-	-	-	-	50	-	2
	Total	**11**	**10**	**9**				**28**

Electives III

CE010 804L01 Advanced Foundation Design
CE010 804L02 Environmental Geotechniques
CE010 804L03 Earthquake Engineering and Design
CE010 804L04 Advanced Hydrology and System Analysis
CE010 804L05 Highway and Airfield Pavements
CE010 804L06 Structural Dynamics and Stability Analysis

Electives IV

CE010 805G01 Finite Element Analysis
CE010 805G02 Environmental Pollution Control Techniques
CE010 805G03 Optimization Techniques
CE010 805G04 Land Use Planning
CE010 805G05 Numerical Methods
CE010 805G06 Remote Sensing and GIS Applications