

JALPAIGURI GOVERNMENT ENGINEERING COLLEGE

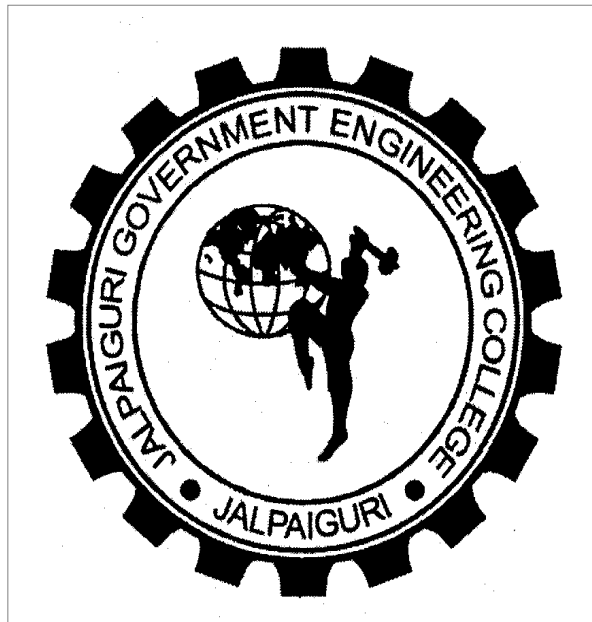
JALPAIGURI- 735 102

(AN AUTONOMOUS GOVERNMENT COLLEGE)

**COURSE STRUCTURE AND SYLLABUS
FOR**

B.TECH. IN CIVIL ENGINEERING

(Implemented from the Academic Year 2013-14 -for the new batch only)



www.jgec.ac.in

Phone: 03561 – 255131 (Principal), Fax: 03561 – 256143
255465 (EPABX)- 105(EE)

Code	Sub.	Contact Hrs./Week		Code	Sub.	Contact Hrs./Week	
		L –T- P-TO	Cr.			L –T-P- TO	Cr.
HU-101	English Language & Technical Communication	2-0-0-2	2	HU-202	Economics for Engineers	3-0-0-3	3
PH-101	Physics – I	3-1-0-4	4	EE-201	Basic Electrical Engineering	3-1-0-4	4
CS-101	Principles of Computer Programming .	3-1-0-4	4	CH-201	Chemistry-I	3-1-0-4	4
M-101	Mathematics-1	3-1-0-4	4	M-201	Mathematics-II	3-1-0-4	4
ME-101	Engineering Mechanics	3-1-0-4	4	EC-201	Basic Electronics Engineering	3-1-0-4	4
PH-191	Physics-I Lab.	0-0-3-3	2	EE-291	Basic Electrical Engg. Lab.	0-0-3-3	2
CS-191	Principles of Computer Programming Lab.	0-0-3-3	2	CH-291	Chemistry-I Lab.	0-0-3-3	2
ME-191	Engineering Drawing. & Graphics	0-0-3-3	2	EC-291	Basic Electronics Engineering Lab.	0-0-3-3	2
HU-181	English Language & Technical Communication Lab	0-0-3-3	2	ME-292	Workshop Practice	0-0-3-3	2
XC-181	Extra Curricular Activities(NSS/ NSO/NSO ETC)	0-0-2-2	1				
		14-4-14-32	27			15-4-12-31	27
HU-301	Value & Ethics in Profession	3-0-0-3	3	M – 402	Mathematics – III	3-1-0-4	4
CE – 301	Engineering Geology and Rock Mechanics	4-0-0-4	4	M(CS) – 401	Numerical Methods	2-0-0-2	2
CE – 302	Solid Mechanics	3-1-0-4	4	CH – 401	Basic Environmental Engineering & Elementary Biology	3-0-0-3	3
CE – 303	Fluid Mechanics	3-0-0-3	3	CE – 401	Structural Analysis – I	3-1-0-4	4
CE – 304	Building Material & Construction	4-0-0-4	4	CE – 402	Hydraulics & Hydraulic Machines	3-0-0-3	3
CE – 305	Engineering Survey – I	3-1-0-4	4	CE – 403	Engineering Survey – II	3-1-0-4	4
CE – 391	Engineering Geology Lab	0-0-3-3	2	M(CS) – 491	Numerical Methods Lab	0-0-3-3	2
CE – 392	Survey Practice – I Lab.	0-0-3-3	2	HU – 481	Technical Report Writing & Language Lab Practice	0-0-3-3	2
CE – 393	Building Design & Drawing	0-0-3-3	2	CE – 491	Fluid Mechanics Lab	0-0-3-3	2
				CE – 492	Survey Practice – II	0-0-3-3	2
		20-2-9-31	28			17-3-12-32	28
HU– 501	Principles of Management	2-0-0-2	2	CE – 601	Design of Steel Structure	3-1-0-4	4
CE – 501	Concrete Technology	3-0-0-3	3	CE – 602	Soil Mechanics – II	3-1-0-4	4
CE – 502	Design of RCC Structure	3-1-0-4	4	CE – 603	Transportation Engineering – I	3-1-0-4	4
CE – 503	Soil Mechanics – I	3-1-0-4	4	CE – 604	Waste Water Engineering	3-1-0-4	4
CE – 504	Water Supply Engineering	3-1-0-4	4	CE – 605	Structural Dynamics & Earthquake Engg.	3-1-0-4	4
CE – 505	Structural Analysis – II	3-0-0-3	3	CE – 691	Soil Mechanics Lab – II	0-0-3-3	2
CE – 591	Solid Mechanics Lab	0-0-3-3	2	CE – 692	Concrete Lab – II	0-0-3-3	2
CE – 592	Soil Mechanics Lab – I	0-0-3-3	2	CE – 693	Environmental Engineering Lab	0-0-3-3	2
CE – 593	Concrete Lab – I	0-0-3-3	2	CE – 694	Structural Design and Drawing – II	0-0-3-3	2
CE – 594	Structural Design and Drawing – I	0-0-3-3	2				
		17-3-12-32	28			15-5-12-32	28
HU– 701	Financial Management and Accounts	3-0-0-3	3	CE – 801	Construction Management and Technique	3-1-0-4	4
CE – 701	Foundation Engineering	3-1-0-4	4	CE – 802	Elective – I	3-1-0-4	4
CE – 702	Advanced Design of RCC Structure	3-1-0-4	4	CE – 803	Elective – II	3-1-0-4	4
CE – 703	Water Resource Engineering	3-0-0-3	3	CE – 804	Groundwater & Well Hydraulics	3-1-0-4	4
CE – 704	Transportation Engineering – II	3-1-0-4	4	CE – 891	Grand Viva Voce	0-0-3-3	2
CE – 791	Highway & Transportation Engg. Lab	0-0-3-3	2	CE – 892	Project – II	0-0-3-3	2
CE – 792	Computer Programming in Civil Engineering	0-0-3-3	2	CE – 893	Seminar	0-0-3-3	2
CE – 793	Estimation, Spec. & Departmental Procedure	0-0-3-3	2	CE – 894	Computer Application in Civil Engineering	0-0-3-3	2
CE – 794	Project – I	0-0-3-3	2				
CE-781	Industrial Training Evaluation	0-0-3-3	2				
		15-3-15-33	28			12-4-12-28	24

Elective-I-CE – 802: A) Finite Element Method B) Design of tall buildingC) PrestressedConcrete D) Hydraulic StructureE) Bridge Engineering F) Space structures.
Elective-II-CE – 803 A) Advanced Foundation Engg B) Dynamics of soil and foundation C) AirPollution & Control Engg D) Pavement design E) Water resources system planning and management F) Ground Improvement Techniques.