Civil Engineering

Semester	Subject	Total hours of academic work with teacher support	Total hours of independent student work	Total hours of academic work	Credits	Prerequisites
1	Calculus (I)	102	85	187	7.5	
1	Physics (I)	85	68	153	6.1	
1	Physics Lab. (I)	51	51	102	4.1	
1	Introduction to Computer Science	85	68	153	6.1	
1	English (I)	68	51	119	4.8	
1	Chemistry	85	51	136	5.4	
1	Chemistry Lab	51	51	102	4.1	
1						
1						
1						
Total ser	nester hours	527	425	952	38.1	
_	Colonius (II)	100	0.5	107	7.5	Colorius (I)
2	Calculus (II)	102 85	85 68	187	7.5	Calculus (I)
2	Physics (II) Physics Lab. (II)	51	51	153 102	6.1	Physics (I) Physics (I), Physics Lab. (I)
2	Programming Language	85	68	153	4.1 6.1	Introduction to Computer Science
2	English (II)	68	51	119	4.8	English (I)
2	Physics (III)-Statics	85	68	153		Physics (I), Calculus (I)
2	Engineering Drawing	68	51	119	4.8	Friysics (1), Calculus (1)
2	Introduction to Civil Engineering	34	17	51	2.0	
2	Indoduction to civil Engineering	34	17	31	2.0	
2						
	nester hours	578	459	1037	41.5	
3	Chinese (I)	68	51	119	4.8	
3	Statistics (I)	68	51	119	4.8	Calculus (I)
3	Guarani Language	68	51	119	4.8	
3	Physics (IV)-Dynamics	85	68	153	6.1	Calculus (I), Physics (III)-Statics
3	Surveying Practice	51	51	102	4.1	Introduction to Civil Engineering
3	Engineering Mathematics (I)	85	68	153	6.1	Calculus (II)
3	Engineering Materials	85	68	153	6.1	Chemistry
3	Surveying	51	51	102	4.1	Introduction to Civil Engineering
3						
3						
Total ser	nester hours	561	459	1020	40.9	
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4	Statistics (II)	68	51	119	4.8	Statistics (I)
4	Chinese (II)	68	51	119	4.8	Chinese (I)
4	Engineering Mathematics (II)	85	68	153	6.1	Engineering Mathematics (I)
4	Engineering Economics	85 102	68	153	6.1	Introduction to Civil Engineering
4	Mechanics of Materials		85	187	7.5	Physics (III)-Statics
4	Engineering Geology	51	51	102	4.1	Introduction to Civil Engineering
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	nester hours	459	374	833	33.4	
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Civil Engineering

Semester	Subject	Total hours of academic work with teacher support	Total hours of independent student work	Total hours of academic work	Credits	Prerequisites
	Research Methodology	68	51	119	4.8	
	Hydrology for Engineers	51	51	102	4.1	
	Fluid Mechanics	85	68	153	6.1	Engineering Mathematics (I)
	Structural Analysis	68	51	119	4.8	Physics (III)-Statics , Engineering Mathematics (II), Mechanics of Materials
	Soil Mechanics	68	51	119	4.8	Mechanics of Materials
	Environmental Engineering	68	51	119	4.8	Introduction to Civil Engineering
	Foundation Engineering	68	51	119	4.8	Physics (III)-Statics , Engineering Mathematics (II), Mechanics of Materials
5	Transportation Engineering	68	51	119	4.8	Surveying
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5						
Total sen	nester hours	544	425	969	39	
_	2					I
	Optative (1)	68	51	119	4.8	Have passed all subjects up to the third semester
	Optative (2)	68	51	119	4.8	Have passed all subjects up to the third semester
	Optative (3)	68	51	119	4.8	Have passed all subjects up to the third semester
	Reinforced Concrete Structure Design	68 68	51 51	119 119	4.8	Structural Analysis Structural Analysis
	Steel Structure Design	51			4.8	
	Construction Management	68	51 51	102 119	4.1	Engineering Economics Hydrology for Engineers
	Hydraulic Engineering Soil Test	51	51	102	4.8	Soil Mechanics
6	Soil Test	51	51	102	4.1	Soil Mechanics
6						
	nester hours	510	408	918	37	
		, , ,		720		
7	Optative (4)	68	51	119	4.8	Have passed all subjects up to the third semester
	Optative (5)	68	51	119	4.8	Have passed all subjects up to the third semester
7	Optative (6)	68	51	119	4.8	Have passed all subjects up to the third semester
7	Civil Engineering Construction	51	51	102	4.1	Reinforced Concrete Structure Design, Steel Structure Design
7	Quality Control of Concrete	51	51	102	4.1	Reinforced Concrete Structure Design
	Material and Structural Test	68	68	136	5.4	Steel Structure Design
	Civil Engineering Design Practice (I)	0	300	300	12.0	Have passed all subjects up to the sixth semester
	Local Regulation	68	68	136	5.4	Construction Management
7						
7						
Total sen	nester hours	442	691	1133	45.4	
0	Durables Wards Training in Communication	1 0	200	1 200 1	12.0	Turner are and all an his above has the above are also
	Practice Work Training in Commpany	0	300	300	12.0	Have passed all subjects up to the sixth semester
	Civil Engineering Design Practice (II)	0	300	300	12.0	Have passed all subjects up to the seventh semester
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-	nester hours	0	600	600	24	
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TOTAL HOURS 3621 3841 7462

TOTAL CREDITS 299.3