

1 <sup>ST</sup> SEMESTER						
Course Code	Subject	Credit Hours		Contact Hours		Prerequisite
		Theory	Practical	Theory	Practical	
CE-104A	Civil Engineering Materials	2	0	2	0	None
CE-105A	Engineering Drawing	1	2	1	6	None
CE-102A	Engineering Mechanics	2	1	2	3	None
MA-111	Applied Mathematics-I	3	0	3	0	None
PHY-124	Applied Physics and Electro-mechanical Fundamentals	2	1	2	3	None
MinE-170A	Geology for Engineers	2	0	2	0	None
IS-102	Islamic Studies / Ethics	2	0	2	0	None
	<b>Total</b>	<b>14</b>	<b>4</b>	<b>14</b>	<b>12</b>	
	<b>Semester Total</b>	<b>18</b>		<b>27</b>		

2 <sup>ND</sup> SEMESTER						
Course Code	Subject	Credit Hours		Contact Hours		Prerequisite
		Theory	Practical	Theory	Practical	
CE-101A	Engineering Surveying	2	1	2	3	None
CE-150A	Computer Programming and Applications of ICT	2	1	2	3	None
CE-111A	Mechanics of Solids-I	2	1	2	3	None
IS 109L / 212L	Fehm-e-Quran-I / Social Ethics-I	0	1	0	3	None
MA-112	Applied Mathematics-II	3	0	3	0	None
ME-100L	Workshop Practice	0	1	0	3	None
CE-131	Fluid Mechanics	3	1	3	3	None
	<b>Total</b>	<b>12</b>	<b>6</b>	<b>12</b>	<b>18</b>	
	<b>Semester Total</b>	<b>18</b>		<b>30</b>		

3 <sup>RD</sup> SEMESTER						
Course Code	Subject	Credit Hours		Contact Hours		Prerequisite
		Theory	Practical	Theory	Practical	
CE-201A	Surveying and Geo-Informatics	3	1	3	3	CE-101A
CE-236A	Engineering Hydrology	2	1	2	3	None
MA-346	Numerical Methods	3	0	3	0	None
IS-203	Ideology and Constitution of Pakistan	2	0	2	0	None
CE-208A	Quantity Surveying and Project Planning	1	1	1	3	None
CE-209A	Professional Ethics and Community Engagement	2	0	2	0	None
	<b>Total</b>	<b>13</b>	<b>3</b>	<b>13</b>	<b>9</b>	
	<b>Semester Total</b>	<b>16</b>		<b>22</b>		

4 <sup>TH</sup> SEMESTER						
Course Code	Subject	Credit Hours		Contact Hours		Prerequisite
		Theory	Practical	Theory	Practical	
CE-205A	Computer Graphics and BIM	0	2	0	6	CE-105A
CE-207A	Economics for Engineers	2	0	2	0	None
CE-211A	Structural Analysis-I	3	0	3	0	CE-102A
CE-221A	Soil Mechanics	2	1	2	3	None
ATP-201	Introduction to Architecture and Town Planning	2	0	2	0	None
IS-209L / 213L	Fehm-e-Quran – II / Social Ethics-II	0	1	0	3	None
CE-231	Advanced Fluid Mechanics	3	1	3	3	None
CE-200A	Occupational Health & Safety	0	1	0	3	None
CE-100A	Survey Camp	Non-Credit (Mandatory and qualifying)				
	<b>Total</b>	<b>12</b>	<b>6</b>	<b>12</b>	<b>18</b>	
	<b>Semester Total</b>	<b>18</b>		<b>30</b>		

5 <sup>TH</sup> SEMESTER						
Course Code	Subject	Credit Hours		Contact Hours		Prerequisite
		Theory	Practical	Theory	Practical	
CE-311A	Structural Analysis-II	2	0	2	0	CE-211A
CE-313A	Steel Structures	3	1	3	3	CE-102A
CE-321A	Geotechnical Engineering	3	1	3	3	CE-221A
HU-300	Technical Report Writing	3	0	3	0	None
CE-331	Hydraulic Engineering	3	1	3	3	CE-131
	<b>Total</b>	<b>14</b>	<b>3</b>	<b>14</b>	<b>9</b>	
	<b>Semester Total</b>	<b>17</b>		<b>23</b>		

6 <sup>TH</sup> SEMESTER						
Course Code	Subject	Credit Hours		Contact Hours		Prerequisite
		Theory	Practical	Theory	Practical	
CE-312A	Mechanics of Solids-II	3	1	3	3	CE-111A
CE-314A	Reinforced Concrete Design-I	3	1	3	3	None
CE-335	Irrigation Engineering	3	1	3	3	CE-131
MA-356	Probability and Statistics in Engineering	2	0	2	0	None
CE-301A	Construction Project Management	2	0	2	0	None
CE-323A	Foundation Engineering	2	0	2	0	CE-221A
CE-300A	Internship (6-8 weeks)	Non-Credit (Mandatory and qualifying)				None
	<b>Total</b>	<b>15</b>	<b>3</b>	<b>15</b>	<b>9</b>	
	<b>Semester Total</b>	<b>18</b>		<b>24</b>		

7 <sup>TH</sup> SEMESTER						
Course Code	Subject	Credit Hours		Contact Hours		Prerequisite
		Theory	Practical	Theory	Practical	
CE-401A	Structural Engineering	3	0	3	0	CE-311A
CE-411A	Reinforced Concrete Design-II	3	1	3	3	CE-314A
CE-421A	Transportation Engineering	3	1	3	3	None
HU-111	Communication Skills	3	0	3	0	None
CE-499A	FYDP-I	0	3	0	6	
	<b>Total</b>	<b>12</b>	<b>5</b>	<b>12</b>	<b>12</b>	
	<b>Semester Total</b>	<b>18</b>		<b>24</b>		

8 <sup>TH</sup> SEMESTER						
Course Code	Subject	Credit Hours		Contact Hours		Prerequisite
		Theory	Practical	Theory	Practical	
CE-412A	Computer Aided Design of Structures	1	2	1	6	CE-313A, CE-314A
CE-423A	Pavement Analysis and Design	2	0	2	0	CE-321A
ENE-440	Environmental Engineering	3	1	3	3	CE-131
IS-111	Pakistan Studies	2	0	2	0	None
Mgt-319A	Entrepreneurship for Engineers	2	0	2	0	None
CE-402	Construction Engineering	2	0	2	0	None
CE-499A	FYDP-II	0	3	0	6	
	<b>Total</b>	<b>12</b>	<b>6</b>	<b>12</b>	<b>15</b>	
	<b>Semester Total</b>	<b>18</b>		<b>27</b>		

<b>G. Total</b>	<b>140</b>	<b>207</b>	
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