						(	Courses an	d SDGs map	ping										
			SDG 1	SDG 2	SDG 3	SDG 4	SDG 5	SDG 6	SDG 7	SDG 8	SDG 9	SDG 10	SDG 11	SDG 12	SDG 13	SDG 14	SDG 15	SDG 16	SDG 17
			No	Zero	Good	Quality	Gender	Clean	Affordabl	Decent	Industry,	Reduced		Responsib	Climate	Life Below	Life on	Peace &	Partnershi
			Poverty	Hunger	Health	Education	Equality	Water	e and	Work and	Innovatio	Inequality	Sustainab	le	Action	Water	Land	Justice	ps to
Sr#	Code	Course			and Well-			and	Clean	Economic	n and		e Cities	Consumpt				Strong	achieve
					being			Sanitation	Energy	Growth	Infrastruc		and	ion and				Institutio	SDGs
											ture		Communi ties	Productio n				ns	
								/	/	/	/	<b>√</b>		<b>√</b>	-				
1		Final Year Design Project (Please map FYDP too)						✓	✓	✓	✓	<b>v</b>	✓	<b>v</b>	✓				
2	CS-103 & CS- 103L	Introduction to Computer Programming for Data Science				✓					✓								
3	ChE-101A	Industrial Stoichiometry – I				✓					✓			✓					
4	ME-122L	Engineering Drawing																	
5	HU-111L	Communication Skills				✓				✓									
6	CY-142 & CY- 142L	Physical and Analytical Chemistry																	
7	MA-113	Calculus and Analytic Geometry																	
8	QT-101	Translation of Holy Quran - I				✓													
9	ChE-108	Fluid Flow-I				✓				✓	✓								
10	ChE-104	Health and Safety at Workplace								✓	✓		✓	✓					
11	ME-100L	Workshop Practice							✓		✓		✓						
12	IS-101	Islamic and Pakistan Studies – I																	
13	ChE-109 & ChE-109L	Chemical Process Industries																	
14	MA-118	Applied Mathematics and Statistics																	
15	PHY-113 & PHY-113L	Applied Physics																	
16	ChE-201A	Industrial Stoichiometry – II									✓			✓					
17	ChE-204A & ChE-204AL	Chemical Engineering Thermodynamics – I				✓					✓		✓						
18	HU-221 ChE-203A &	Technical Writing and Presentation Skills																	
19	ChE-203AL CY-221 & CY-	Particle Technology				✓					✓		✓						
20	221L	Inorganic and Organic Chemistry																	
21	MA-233 L	Applied Mechanics																	
22		Translation of Holy Quran - II																	<u> </u>
23	ChE-210 & ChE-210L EE-140 & EE-	Separation processes-I				✓		<b>√</b>			✓			✓					
24	140L	Electrical Technology																	
25	IS-201	Islamic and Pakistan Studies – II																	
26	ChE-208 & ChE-208L	Fluid Flow-II				$\checkmark$				✓	✓			✓					

12   12   13   13   13   13   13   13		CFE 300 6	Т	1 , 1							т.		1		
December	27		Process Heat Transfer	✓		✓		✓		✓	✓			$\perp$	
199   194-1914	28		Numerical Analysis												
10   Clif-2312   Unit Processes	29	ChE-301&	Chemical Reaction Engineering												
2   C16-304   Chemical Engineering Thermodynamics — II	30		Engineering Materials			✓		✓		✓					
33   MGT-413   Entrepreneurship	31	ChE-312	Unit Processes	✓	✓	✓	✓	✓		✓	✓				
34   ChF-315 L   Process Modeling and Simulation   V   V   V   V   V   V   V   V   V	32	ChE-304	Chemical Engineering Thermodynamics – II	✓		✓	✓	✓		✓	✓				
35   Chi-314   Chemical Engineering Mathematics   V   V   V   V   V   V   V   V   V	33	MGT-413	Entrepreneurship												
Chi-308   Energy Engineering   Chi-408	34	ChE-315 L	Process Modeling and Simulation	✓				✓							
150   Che-2/302   Chemical Process Design & Economics   150   15	35	ChE-314	Chemical Engineering Mathematics	✓			✓	✓							
38   Chi-310 & Separation Processes-II	36		Energy Engineering												
Section   Sect	37	ChE-313	Chemical Process Design & Economics	✓	✓	✓	✓	✓		✓	✓				
40 ChE-316 Community/Research Project-I  41 OT-301 Translation of Holy Quran - III  42 ChE-432 to ChE-404 R Instrumentation and Control  43 ChE-404 R ChE-401 Chemical Reactor Design  44 ChE-401 Chemical Process Equipment Design and Rating  45 ChE-402 Engineering Management  46 ChE-410 Engineering Management  47 ChE-411 Final Year Project - I  48 ChE-312 to Community/Research Project-II  49 ChE-405 R Environmental Engineering  40 ChE-411 Elective-III  51 ChE-431  Elective-III  51 ChE-431  Elective-III  52 ChE-431  Elective-III  53 QT-401 Translation of Holy Quran - IV	38		Separation Processes-II		✓		✓	✓		✓	✓				
41   QT-301   Translation of Holy Quran - III	39	ChE-307	Transport Phenomena	✓			✓	✓		✓	✓				
42 ChE-432 to ChE-404 & ChE-404 & Instrumentation and Control	40	ChE-316	Community/Research Project-I												
Add   ChE-404   ChE-401   Chemical Reactor Design	41	QT-301	Translation of Holy Quran - III	✓											
43   ChE-404L   Instrumentation and Control	42		Elective-I												
45 ChE-409 Chemical Process Equipment Design and Rating  46 ChE-410 Engineering Management  47 ChE-411 Final Year Project − I  48 ChE-317 Community/Research Project − I  49 ChE-406 & ChE-406 & ChE-401 Environmental Engineering  50 ChE-432 to ChE-431 Elective-II  51 ChE-431 to ChE-431 Elective-III  52 ChE-432 to ChE-431 to ChE-4	43		Instrumentation and Control	✓				✓			✓				
46 ChE-410 Engineering Management	44	ChE-401	Chemical Reactor Design	✓			✓	✓		✓	✓				
47 ChE-411 Final Year Project − I  48 ChE-317 Community/Research Project-II  49 ChE-406 & ChE-406L Environmental Engineering  50 ChE-432 to ChE-441	45	ChE-409	Chemical Process Equipment Design and Rating	✓	✓	✓	✓	✓			✓				
48 ChE-317 Community/Research Project-II  49 ChE-406 & ChE-406 L Environmental Engineering  50 ChE-432 to ChE-431 to ChE-421 to ChE-421 to ChE-431 to ChE	46	ChE-410	Engineering Management	✓				✓			✓				✓
49 ChE-406 & ChE-406 Lenvironmental Engineering  50 ChE-432 to ChE-432 to ChE-431 to Ch	47	ChE-411	Final Year Project – I		✓	✓	✓	✓	✓	✓	✓				
49   ChE-406L   Environmental Engineering	48	ChE-317	Community/Research Project-II												
50   ChE-441   Elective-II     51   ChE-421 to   ChE-431   ChE-421 to   ChE-431   ChE-421 to   ChE-431   Elective-IV	49	ChE-406L	Environmental Engineering	✓	✓	✓	✓	✓	<b>√</b>	✓	✓	✓			
S1   ChE-431   Elective-III     S2   ChE-421 to   ChE-431   Elective-IV   S3   QT-401   Translation of Holy Quran - IV   ✓   S   ChE-431   Translation of Holy Quran - IV   O	50	ChE-441	Elective-II												
52 ChE-431 Elective-IV  53 QT-401 Translation of Holy Quran - IV  ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	51		Elective-III												
	52		Elective-IV												
54 ChE-412 Final Year Project – II	53	QT-401	Translation of Holy Quran - IV	✓											
	54	ChE-412	Final Year Project – II		✓	✓	✓	✓	<b>√</b>	✓	✓	<b>√</b>			