ANNEXURE C - Mapping of CLOs with PLOs

Abbreviations:

C= Cognitive (1 being the lowest, 6 being the highest level)
P= Psychomotor (1 being the lowest, 7 being the highest level)
A= Affective (1 being the lowest, 5 being the highest level)

Semester	Course No.	Course Title	PLO #	1	2	3	4	5	6	7	8	9	10	11	12
			PLO Description	*Engineering Knowledge*	*Problem Analysis*	*Design / Development of Solutions*	*Investigation*	*Modern Tool Usage*	*The Engineer & Society*	*Environment and Sustainability*	*Ethics*	*Individual and Team Work*	*Communication*	*Project Management*	*Lifelong Learning*
			CLO #												
1	CE-301	Applied Chemistry-I (Physical & Analytical Chemistry)	1	C2											
			2		C3										
			3					C3							
			4				P4								
	CE-303	Physics	1	C2											
			2	C2											
			3			P3									
	CE-305	Mathematics-I (Calculus and Analytical Geometry)	1		C2										
			2			C3									
			3		C2										
	CE-307	Engineering Drawing	1	P4											
			2	P5											
	CE-309	Logic & Critical Thinking	1						C2						
			2		C4										
			3								C5				
2	CE-300	Applied Chemistry-II (Inorganic & Organic Chemistry)	1	C2											
			2		C3										
			3				P2								
	CE-302	Workshop Practice	1	P3											
			2						P6						
	CE-304	Chemical Process Principles-I	1	C1											
			2	C2											
			3			C3									
	CE-306	Mathematics-II (Applied Mathematics)	1		C2										
			2			C3									
	CE-310	Electrical & Electronics Engineering	1	C2											
			2	C2											
3	CE-401	Chemical Engineering Thermodynamics-I	1	C2											
			2		C3										
			3		C3										
			4									P3			
	CE-403	Engineering Materials	1	C2											
			2							C3					
			3		C3										
	CE-405	Mathematics-III (Chemical Engineering Mathematics)	1		C3										
			2			C3									
	CE-407	Fluid Mechanics-I	1	C2											
			2		C3										
			3			C3									
			4				P3								
	CE-409	Computer Applications and Programming	1	C2											
			2			C5									
			3					P3							
	CE-411	Engineering Mechanics	1	C2											
			2		C3										
4	CE-400	Chemical Engineering Thermodynamics-II	1	C3											
			2				C4								
			3			C6									
	CE-402	Heat Transfer	1	C2											
			2		C3										
			3			C5									
			4				P4								
	CE-404	Particulate Technology	1	C2											
			2		C3										
			3			C3									
			4				P4								
	CE-406	Chemical Process Principles-II	1	C2											
			2				C4								
			3					A4							
	CE-408	Mass Transfer	1	C2											
			2		C4										
			3				C6								
	CE-410	Computer Aided Drawing	1					P4							
	CE-412	Communication Skills	1										A3		
			2										A4		

5	CE-501	Fluid Mechanics-II	1	C3											
			2			C5									
			3				C4								
	CE-503	Technical Report Writing & Presentation Skills	1	C3											
			2										C3		
			3								A3				
	CE-505	Chemical Process Technology	1		C3										
			2			C3									
			3							C5					
			4									P5			
	CE-507	Probability & Statistics	1	C2											
			2					C3							
	CE-509	Simultaneous Heat & Mass Transfer	1	C2											
			2		C4										
			3			C5									
			4				P3								
	CE-511	Instrumentation & Process Control	1	C2											
			2			C5									
			3												A4
			4				P3								
6	CE-500	Process Safety Management	1											C4	
			2							C5					
			3						C6						
	CE-502	Chemical Reaction Engineering	1	C2											
			2		C5										
			3			C4									
			4				P4								
	CE-504	Numerical Methods & Software Application	1	C2											
			2		C2										
			3			C3									
			4					P4							
	CE-506	Fuels & Energy	1	C2											
			2			C3									
			3							C4					
			4				P4								
	CE-508	Separation Processes	1	C2											
			2			C5									
			3				P4								
	CE-510	Entrepreneurship	1	C3											
			2												C6
			3			A4									
7	CE-601	Transport Phenomena	1	C2											
			2		C4										
			3			C5									
	CE-603	Chemical Process Design & Simulation	1												C4
			2			C6									
			3					A4							
			4									P7			
	CE-605	Chemical Engineering Economics	1		C3										
			2				C4								
			3						C6						
	CE-607	Chemical Engineering Plant Design	1			C5									
			2											C6	
			3												A3
	CE-609	Petroleum Refinery Engineering	1	C3											
			2		C4										
			3			C6									
			4				P4								
	CE-611	Chemical Engineering Plant Design Project “A”	1				C2								
			2									A3,A5	A2		
			3											C6	
			4			C6		C6		C6					
			5				C6								
			6			C6	C6				C3,C5		C3,C6		
8	CE-600	Chemical Engineering Plant Design Project “B”	1				C2								
			2									A3,A5	A2		
			3											C6	
			4			C6		C6		C6					
			5				C6								
			6			C6	C6				C3,C5		C3,C6		
	CE-602	Industrial Management	1								C2				
			2						C4						
			3											C5	
			4												C6
	CE-604	Maintenances & Utility Engineering	1											C5	
			2			C5									
			3												A2
	CE-606	Process Analysis and Optimization	1		C3										
			2				C4								
			3					C6							
		Elective-I	1	C2											
			2						C3						
			3				C6								
			4												A3
		Elective-II	1	C2											
			2						C3						
			3				C6								
			4												A3