COURSE LIST of BACHELOR PROGRAM

No.	Course Code	Course Name	Credit			
SEMESTER I						
1	SM234101	Calculus 1	3			
2	SF234101	Physics 1	5			
3	SK234102	Chemistry	3			
4	TK234101	Introduction to Chemical Engineering	3			
5	TK234102	Analytical Chemistry	4			
	Number of Credits					
SEM	ESTER II					
1	SM234201	Calculus 2	3			
2	SF234203	Physics of Electricity and Magnetic	3			
3	TK234201	Introduction to Chemical Industries	2			
4	TK234202	Organic Chemistry	4			
5	TK234203	Physical Chemistry	4			
6	TK234204	Statistics	2			
		Number of Credits	18			
SEM	ESTER III					
1	TK234301	Chemical Engineering Thermodynamics	3			
2	TK234302	Microbiology	3			
3	TK234303	Chemical Engineering Principles 1	3			
4	TK234304	Construction Materials	2			
5	TK234305	Momentum transfer	3			
6	TK234306	Chemical Engineering Mathematics	4			
7	TK234307	Plant Utility System	2			
Number of Credits						

SEMESTER IV					
1	TK234401	Chemical Engineering Unit Operation 1	4		
2	TK234402	Chemical Engineering Thermodynamics 2	3		
3	TK234403	Mass and Heat Transfer	4		
4	TK234404	Chemical Engineering Principles 2	3		
5	TK234405	Chemical Reaction Engineering 1	3		
6	TK234406	Chemical Engineering Numerical Computation	3		
	Number of Credits				
SEM	ESTER V				
1	TK234501	Chemical Equipment Design	4		
2	TK234502	Chemical Engineering Unit Operations 2	4		
3	TK234503	Chemical Engineering Unit Operations 3	4		
4	TK234504	Chemical Plant Safety*	3		
5	TK234505	Industrial Waste Treatment	3		
6	TK234506	Chemical Reaction Engineering 2	3		
	Number of Credits 21				
SEM	ESTER VI				
1	UG234914	English	2		
2	UG234916	Technology application and digital transformation	3		
3	UG234912	Indonesian	2		
4	UG234913	Civics	2		
5	TK234601	Process Control	4		
6	TK234602	Engineering Economics	2		
7	TK2346XX	Elective 1	3		

8	XXXXXX	Enrichment Lecture	3				
	Number of Credits						
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SEM	SEMESTER VII						
1	UG234915	Technopreneurship	2				
2	UG23490X	Religion	2				
3	UG234911	Pancasila	2				
4	TK234701	Practical Field Work	2				
5	TK234702	Plant Design	3				
6	TK234703	Synthesis and Process Simulation	3				
7	TK234704	Research Project	4				
8	TK2347XX	Elective 2	3				
	Number of Credits						
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SEMESTER VIII							
1	TK234801	Plant Design Project	5				
Number of Credits							
Total Credits							

LIST of ELECTIVE COURSES

No.	Course Code	Course Name	Credit			
Elect	Elective I					
1	TK234603	Membrane Technology	3			
2	TK234604	Aerosol Technology	3			
3	TK234605	Lipids Technology	3			
4	TK234606	Project Management	3			
5	TK234607	Introduction to Combustion Engineering	3			
6	TK234608	Supercritical Technology	3			
7	TK234609	Air Pollution Control	3			
8	TK234610	Separation Column Design	3			
9	TK234611	Energy Technology	3			
Elect	ive II					
1	TK234705	Separation Technology	3			
2	TK234706	Solid and Toxic and Hazardous Waste	3			
		Management				
3	TK234707	Essential Oil Processing	3			
4	TK234708	Heterogeneous Catalyst	3			
5	TK234709	Polymer Technology	3			
6	TK234710	Biorefinery & Bioconversion of	3			
		Biomass				
7	TK234711	Natural Gas Processing Technology &	3			
		HYSYS application				
8	TK234712	Biochemical and Food Technology	3			
9	TK234713	Process Design and Integration	3			
10	TK234714	Fluid Mixing Technology	3			
11	TK234715	Electrochemical and Nanomaterial	3			
		Technology				

Elective III: Enrichment Course.
*: Enrichment course opened in Chemical Engineering Department.