

Department of **Chemical Engineering**  
DIII – Chemical Engineering  
FACULTY OF INDUSTRIAL TECHNOLOGY  
**INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS)**

Smt	Code	Courses	Credits
1	IG1101	Islam Education*	2
1	IG1102	Protestant Education*	2
1	IG1103	Catholic Education*	2
1	IG1104	Hindu Education*	2
1	IG1105	Buddha Education*	2
1	IG1106	Concept of Nationalism	3
1	IG1108	English	3
1	TK5201	Differential and Integral	2
1	TK5301	Analyte Chemistry	4
1	TK5302	Organic Chemistry	4
2	TK5202	Fold Integral and Ordinary Differential Equations	2
2	TK5203	Technical Physics	2
2	TK5204	Quality Monitoring and Statistics	2
2	TK5303	Introduction to Chemical Physics	4
2	TK5304	Chemical Industrial Equipment	2

Smt	Code	Courses	Credits
2	TK5305	Instrumentation Analysis	4
2	TK5306	Heat and Mass Transfer	2
3	TK5307	Chemical Engineering Thermodynamics	2
3	TK5308	Food Technology	4
3	TK5309	Mass Balance	2
3	TK5310	Energy Balance	2
3	TK5311	Chemical Industrial Processing	2
3	TK5312	Metal Science and Corrosion	4
3	TK5313	Fluid Transportation	4
4	TK5205	Occupational Safety and Health	2
4	TK5206	Electrical Power Engineering	2
4	TK5207	Chemical Engineering Computing	2
4	TK5314	Chemical Industry Water Management	4
4	TK5315	Separation Process with Mass Transfer	4

Smt	Code	Courses	Credits
4	TK5316	Heat Transfer Equipment and Vessel	2
4	TK5317	Chemical Reaction Technique	2
5	IG1109	Technopreneurship	3
5	TK5208	Repair and Maintenance Technique	2
5	TK5318	Waste Management Technology	4
5	TK5319	Separation Process with Heat Transfer, Mass Simultaneously	4
5	TK5320	Combustion Technique	4
5	TK5321	Practical Work	3
6	TK5209	Clean Production	2
6	TK5322	Vegetable, Essential and Biofuel Technology	4
6	TK5323	Process Equipment and Control	2
6	TK5401	Optional**	2
6	TK5501	Final Project	6

\* Select one of those with stars

\*\* Elective courses