

Department of **Chemical Engineering**
Undergraduate – 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	IG1110	Khonghucu Education*	2
1	SF1201	Physics I	3
1	SK1201	Chemistry I	4
1	SM1203	Calculus I	3
1	TK1211	Computer Programming	2
2	IG1107	Concept of Scientific Technology and Communication	3
2	SF1204	Physics II	3
2	SM1202	Calculus II	3
2	TK1221	Introduction to Chemical Industry	3
2	TK1222	Organic Chemistry I	2
2	TK1223	Analytical Chemistry	4
3	TK1231	Data Analysis and Processing	2
3	TK1232	Organic Chemistry II	3
3	TK1233	Fabric utility System	2

Smt	Code	Courses	Credits
3	TK1331	Chemical Engineering Mathematics I	3
3	TK1332	Chemical Engineering Principle I	3
3	TK1333	Transfer Processing I	3
3	TK1334	Chemical Physics	4
4	TK1241	Microbial Industry	3
4	TK1341	Chemical Engineering Mathematics II	3
4	TK1342	Chemical Engineering Principle II	3
4	TK1343	Chemical Engineering Operation I	3
4	TK1344	Chemical Engineering Thermodynamics I	3
4	TK1345	Transfer Processing II	3
4	TK1346	Construction and Corrosion Materials	2
5	TK1351	Chemical Reaction Technique I	3
5	TK1352	Chemical Engineering Application I	2
5	TK1353	Chemical Engineering Operation II	3
5	TK1354	Chemical Engineering Thermodynamics II	3
5	TK1355	Process Dynamics	2
5	TK1356	Applied Numerical Computing	3

Smt	Code	Courses	Credits
6	TK1361	Chemical Reaction Technique II	3
6	TK1362	Chemical Engineering Application II	2
6	TK1363	Chemical Engineering Operation III	3
6	TK1364	Chemical Industrial Equipment Design	3
6	TK1365	Process Control	3
6	TK1463	Energy and Petrochemical Technology**	3
7	IG1109	Technopreneurship	3
7	TK1371	Process Simulation and Synthesis	3
7	TK1372	Engineering Economics	2
7	TK1373	Chemical Plant Design	2
7	TK1374	Chemical Fabric Design Assignment	4
7	TK1471	Purification and Separation Technology**	3
8	TK1281	Chemical Fabric Management	2
8	TK1282	Industrial Waste Management	3
8	TK1283	Chemical Plant Safety	2
8	TK1381	Practical Work	2
8	TK1481	Pollution Control Technology**	3
8	TK1581	Thesis	6

* Select one of those with stars

** Elective courses