Curriculum Structure for Common First Year (TPB) Stage

1st Semester					2nd Semester				
No.	**Code**	**Course Name**	**CU**	**ECTS**	**No.**	**Code**	**Course Name**	**CU**	**ECTS**
1	4720102178	Digital Literacy	2	3.18	1	3074212017	English for Chemistry	2	3.18
2	0001212009	Indonesian	2	3.18	2	3074212018	Qualitative Chemical Analysis	2	3.18
3	0002213005	English	3	4.77	3	3074213019	Basic Chemistry 2	3	4.77
4	3074213012	General Biology	3	4.77	4	3074213020	Quantum Chemistry	3	4.77
5	3074213013	General Physics	3	4.77	5	3074212021	Conservation of Natural Resources and Environment	2	3.18
6	3074213014	Basic Chemistry 1	3	4.77	6	3074213022	Mathematics for Chemistry	3	4.77
7	3074213015	Basic Mathematics	3	4.77	7	0001212007	Citizenship Education	2	3.18
8	0001212008	Pancasila	2	3.18	8	0001212001	Religion Education	2	3.18
Total			21	33.39	Total			19	30.21

Curriculum Structure for Bachelor

3rd Semester					4th Semester				
No.	**Code**	**Course Name**	**CU**	**ECTS**	**No.**	**Code**	**Course Name**	**CU**	**ECTS**
1	3074213023	Laboratory Organization	3	4.77	1	3074212033	Basics of Chemical Separations	2	3.18
2	3074212025	Philosophy of Science	2	3.18	2	3074212034	Coordination Chemistry	2	3.18
3	0002212006	Basic Social and Cultural Sciences	2	3.18	3	3074213035	Chemical Kinetics	3	4.77
4	3074213028	Quantitative Chemical Analysis	3	4.77	4	3074212036	Nuclear Chemistry and Radiochemistry	2	3.18
5	3074213029	Basic Theory of Inorganic	3	4.77	5	3074213037	Polyfunction Organic Compound	2	3.18

3rd Semester					4th Semester				
No.	**Code**	**Course Name**	**CU**	**ECTS**	**No.**	**Code**	**Course Name**	**CU**	**ECTS**
6	3074213030	Thermodynamics of Chemistry	3	4.77	6	3074212038	Practicum of Organic Chemistry	2	3.18
7	3074213031	Monofunction Organic Compounds	3	4.77	7	3074213039	Basic Statistics	2	3.18
8	0002212008	Entrepreneurship	2	3.18	8	3074212032	Literature of Chemistry	2	3.18
					9	Elective Course		2	3.18
Total			21	33.39	Total			19	30.21

5th Semester					6th Semester				
No.	**Code**	**Course Name**	**CU**	**ECTS**		**Code**	**Course Name**	**CU**	**ECTS**
1	3074212040	Structure and Function of Biomolecule	3	4.77	1	3074212043	Industrial Chemistry	2	3.18
2	3074212041	Spectroscopy and Chromatographic Methods	2	3.18	2	3074211048	Practicum of Inorganic Chemistry	2	3.18
3	3074212042	Main Elements of Chemistry	2	3.18	3	3074213049	Metabolism and Pathways of Genetics Information	3	4.77
4	3074212045	Mechanism of Organic Reaction	2	3.18	4	3074211051	Practicum of Analytical Instrument	2	3.18
5	3074213046	Surface Chemistry	3	4.77	5	3074213052	Transition Elements of Chemistry	2	3.18
6	3074213047	Research Methodology	3	4.77	7	3074213055	Organic Synthetic	2	3.18
7	3074212050	Electrochemistry Analysis	2	3.18	8	3074213058	Molecular Structure Elucidation	3	4.77
8	3074211053	Practicum of Biochemistry	2	3.18	9	Elective Course		2	3.18
9	Elective Course		2	3.18					
Total			21	33.39	Total			18	28.62

7th Semester					8th Semester				
No.	Code	Course Name	CU	ECTS		Code	Course Name	CU	ECTS
1	3074213044	Environmental Chemistry	3	4.77	1	3074216060	Thesis	6	9.54
2	3074212056	Mechanism of Inorganic Reaction	2	3.18	2	Elective Course		2	3.18
3	0002213009	Community Service	3	4.77					
4	0002213010	Internship	3	4.77					
5	3074212054	Seminar	2	3.18					
6	Elective Course		4	6.36					
Total			17	27.03	Total			8	12.72

List of Elective Course

Elective Course Odd Semester						Elective Course Even Semester					
No	Code	Course Name	CU	ECTS	Sem	No	Code	Course Name	CU	ECTS	Sem
1	3074112061	Computational Chemistry	2	3.18	5	1	3074112062	Stereochemistry	2	3.18	4
2	3074112063	Pharmaceutical Chemistry	2	3.18	5	2	3074112074	Electrochemistry	2	3.18	4
3	3074112069	Natural Product Chemistry	2	3.18	5	3	3074112065	Career Development	2	3.18	6
4	3074112070	Cosmetics	2	3.18	5	4	3074112071	Material Chemistry	2	3.18	6
5	3074112064	Organometallic Compound	2	3.18	7	5	3074112072	Microbiology	2	3.18	6
6	3074112066	Food Analysis	2	3.18	7	6	3074112073	Solid State Chemistry	2	3.18	6
7	3074112067	Evaluation of Nutritional Value of Food	2	3.18	7	7	3074113075	Food Chemistry	2	3.18	6
8	3074112068	Capita Selecta	2	3.18	7	8	3074112078	Biotechnology	2	3.18	8
9	3074112076	Research Technique of Biochemistry	2	3.18	7	9	3074112079	Organic Polymer Chemistry	2	3.18	8
10	3074112077	Toxicology	2	3.18	7						
11	3074112080	Bio-inorganic	2	3.18	7						