UNIVERSITAS PENDIDIKAN INDONESIA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES EDUCATION
DEPARTMENT OF CHEMISTRY EDUCATION
Jalan Setiabudi 229 Bandung 40154
Tel: (022) 2000579 Fax. (022) 2000579
Website: kimia.upi.edu, E-mail: jp_pend_kimia@upi.edu

Curriculum of Bachelor of Chemistry Study Programme

Course Code	Group of courses	Credits	Semester							
			1	2	3	4	5	6	7	8
MKU		**14**	**6**	**4**			**2**	**2**		
KU100	Islamic Education	2	2							
KU101	Protestant Christianity Education	2	2							
KU102	Catholic Education	2	2							
KU103	Hinduism Education	2	2							
KU104	Buddhism Education	2	2							
KU109	Confucianism Education	2	2							
KU105	Civic Education	2	2							
KU106	Indonesian Language	2	2							
KU108	Sports Education	2		2						
KU110	Pancasila Education	2		2						
KU119	Art Education	2		2						
KU300	Islamic Education Seminar	2					2			
KU301	Protestant Christianity Education Seminar	2					2			
KU302	Catholic Education Seminar	2					2			
KU303	Hinduism Education Seminar	2					2			
KU304	Buddhism Education Seminar	2					2			
KU309	Confucianism Education Seminar	2					2			
KU400	Community Service	2						2		
MKKU		**2**		**2**						
HU300	Introduction to Education	2		2						
MKKF		**6**	**3**	**3**						
MA100	STEM	3	3							
MA200	STEM Application	3		3						
MKKPL/SP		**4**								**4**
KI590	Working Practice Interval (Internship)	4								4
MKKIPS		**99**	**12**	**9**	**20**	**20**	**18**	**20**		
Basic for Chemistry		**10**	**8**	**2**						
KI101	Fundamentals of Chemistry 1	3	3							
KI102	Fundamentals of Chemistry 2	3	3							
KI202	Basic Laboratory Skills	2	2							
KI203	Fundamental Chemistry Experiments	2		2						
Physical Chemistry		**18**			**5**	**7**	**4**	**2**		
KI303	Chemical Bonding and Structure	3				3				
KI304	Gas, Thermodynamics and Phase Equilibrium	3			3					
KI309	Chemical Kinetics	2			2					
KI314	Thermodynamics of Multi-components System	2				2				
KI324	Computational Chemistry	2					2			

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KI405	Physical Chemistry Experiments	2				2				
KI323	Nuclear Chemistry and Radiochemistry	2					2			
KI505	Polymer Chemistry	2						2		
Analytical Chemistry		**12**		**3**	**4**	**5**				
KI305	Fundamentals of Analytical Chemistry	3		3						
KI310	Separation Chemistry	2			2					
KI406	Fundamentals Analytical Chemistry Experiments	2			2					
KI410	Chemical Separation and Measurement Experiments	2				2				
KI503	Instrumental Analytical Chemistry	3				3				
Inorganic Chemistry		**13**			**3**	**3**	**5**	**2**		
KI307	Structure and Reactivity of Inorganic Compounds	3			3					
KI316	Coordination Chemistry	3					3			
KI408	Inorganic Chemistry Experiments	2					2			
KI318	Organometallic Chemistry	2						2		
KI312	Chemistry of Transition and Main Group Elements	3				3				
Organic Chemistry		**17**		**4**	**4**	**2**	**7**			
KI306	Structure and Reactivity of Monofunctional Organic Compounds	4		4						
KI311	Structure and Reactivity of Polyfunctional Organic Compounds	2			2					
KI315	Organic Synthesis	2				2				
KI317	Natural Product Chemistry	2					2			
KI407	Identification and Purification of Organic Compounds Experiments	2			2					
KI504	Elucidation of Organic and Inorganic Compounds Structure	3					3			
KI411	Synthesis and Isolation of Organic Compounds Experiments	2					2			
Biochemistry		**9**				**3**	**2**	**4**		
KI308	Structure and Function of Biomolecule	3				3				
KI313	Biomolecule Metabolism and Genetic Information	2					2			
KI409	Biochemistry Experiments	2						2		
KI506	Biotechnology	2						2		
Supplementary		**4**	**2**		**2**					
KI200	English	2	2							
KI201	Entrepreneurship	2			2					
Introduction to Applied Chemistry		**10**						**10**		
KI319	Introduction to Environmental Chemistry	2						2		
KI320	Introduction to Food Chemistry	2						2		
KI321	Introduction to Material Chemistry	2						2		
KI322	Introduction to Biological Chemistry	2						2		
KI325	Chemical Industry Process	2						2		

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Tools for Chemistry		**6**	**2**		**2**			**2**		
KI337	Statistics for Chemistry	2			2					
KI339	Research Methodology	2						2		
KI100	Mathematics for Chemistry	2	2							
MKKPPS		**16**							**16**	
Biological Chemistry		**16**								
KI522	Essential Oil Chemistry	3							3	
KI523	Separation and Characterization of Natural Product Compounds	3							3	
KI524	Molecular Genetics	3							3	
KI525	Selected Topic in Biological Chemistry	3							3	
KI526	Biological Chemistry Research Techniques	2							2	
KI533	Biological Chemistry Seminar	2							2	
Environmental Chemistry		**16**							**16**	
KI507	Water Treatment	3							3	
KI508	Waste Treatment	3							3	
KI509	System and Design of Waste Treatment	2							2	
KI510	Environmental Toxicology	2							2	
KI511	Environmental Chemistry Analysis	2							2	
KI527	Waste and Water Treatment Experiments	2							2	
KI530	Environmental Chemistry Seminar	2							2	
Food Chemistry		**16**								
KI512	Food Regulation	2							2	
KI513	Food Sensory Evaluation	2							2	
KI514	Food Chemistry	2							2	
KI515	Food Preservation	2							2	
KI516	Food Processing	2							2	
KI517	Health and Nutrition	2							2	
KI528	Food Processing and Technology Experiments	2							2	
KI531	Food Chemistry Seminar	2							2	
Material Chemistry		**16**								
KI518	Solid State Chemistry	3							3	
KI519	Selected Topic in Material Chemistry	2							2	
KI520	Surface Chemistry	3							3	
KI521	Chemistry and Nanotechnology	3							3	
KI529	Material Synthesis and Characterization	3							3	
KI532	Material Chemistry Seminar	2							2	
THESIS		**6**								**6**
KI598	Thesis	6								6
KI599	Defense Exam	0								
TOTAL CREDITS		**147**								