



**STRUKTUR KURIKULUM KERANGKA KUALIFIKASI NASIONAL (KKNI Curriculum Structure) 2017-2020 - Mata Kuliah**  
**PROGRAM STUDI KIMIA (Department of Chemistry) UIN MALANG**  
**PROGRAM SARJANA (Undergraduate Program)**

| SMT  |   |   |   |   |  |  |  |  |  |   | sks   | kumulatif sks   |    |     |
|------|---|---|---|---|--|--|--|--|--|---|---|---|----|-----|
| VIII | SKRIPSI ( <i>Manuscript</i> )                       | 6 |   |   |  |  |  |  |  |   | 6   | 152   |    |     |
| VII  | MK. PILIHAN IV ( <i>Elective Course IV</i> )        | 2 | MK. PILIHAN V ( <i>Elective Course V</i> )  | 2 | KEWIRAUSAHAAN KIMIA ( <i>Chem. Entrepreneurship</i> )                                | 1  | KKM ( <i>Community Dev.</i> )  | 2  | PKL ( <i>Internship</i> )  | 2   | SEMINAR TUGAS AKHIR ( <i>Manuscript Seminar</i> )                                   | 1   | 10 | 146 |
| VI   | MK. PILIHAN III ( <i>Elective Course III</i> )      | 2 | PRAKTIKUM KIMIA ANALISIS INSTRUMEN ( <i>Instrument of Analytical Chemistry in Practicum</i> ) | 1 | METODOLOGI PENELITIAN ( <i>Methodology of Research</i> )                             | 2  | PENGANTAR TERMODINAMIKA STATISTIK ( <i>Introduction of Statistical Thermodynamic</i> )     | 2  | ANALISIS SENYAWA ORGANIK ( <i>Analysis of Organic Compound</i> )                       | 3   | ENZIMOLOGI ( <i>Enzymology</i> )  | 2   | 24 | 136 |
|      | MK. PILIHAN III ( <i>Elective Course III</i> )      | 2 | KIMIA ANALISIS INSTRUMEN II ( <i>Instrument of Analytical Chemistry II</i> )                  | 2 | KIMIA PRODUK HALAL ( <i>Chemistry of Halal Products</i> )                            | 2  | PRAKTIKUM KIMIA FISIK II ( <i>Physics Chem in Practicum I</i> )                            | 1  | PRAKTIKUM KIMIA ORGANIK LANJUT ( <i>Advanced Organic Chem in Practicum</i> )           | 1   | PRAKTIKUM BIOKIMIA II ( <i>Practicum of Biochemistry II</i> )                       | 1   |    |     |
|      |   |   |   |   |  | SINTESIS DAN ANALISIS ANORGANIK ( <i>Synthesis and Analysis of Anorganic</i> ) | 3  |  |  |   |   |   |    |     |
| V    | MK. PILIHAN II ( <i>Elective Course II</i> )        | 2 | KIMIA ANALISIS INSTRUMEN I ( <i>Instrument of Analytical Chemistry I</i> )                    | 2 | PRAKTIKUM KIMIA ANORGANIK II ( <i>Basic of Inorganic Chemistry in Practicum II</i> ) | 1  | DINAMIKA KIMIA ( <i>Dynamics Chemistry</i> )   | 2  | KIMIA ORGANIK FISIK ( <i>Organic Chem. Physic</i> )                                    | 3   | METABOLISME BIOMOLEKUL ( <i>Metabolism of Biomolecules</i> )                        | 3   | 23 | 112 |
|      | STATISTIKA KIMIA ( <i>Statistics of Chemistry</i> ) |   | 3   |   |  | KEREAKTIFAN SENYAWA ANORGANIK ( <i>Structural of Inorganic Compound</i> )      | 3  | SIMETRI DAN DASAR SPEKTROSKOPI ( <i>Symetric and Basic of Spectroscopy</i> ) | 2  | PRAKTIKUM REAKSI SENYAWA ORGANIK ( <i>Reaction of Organic Compound in Practicum</i> ) | 1   | PRAKTIKUM BIOKIMIA I ( <i>Practicum of Biochemistry I</i> ) |    |     |
|      | MK. PILIHAN I ( <i>Elective Course I</i> )          | 2 | PEMISAHAN KIMIA ( <i>Chemical Separation</i> )  | 3 | STRUKTUR SENYAWA ANORGANIK ( <i>Structural of Inorganic Compound</i> )               | 4  | TERMODINAMIKA & KESEIMBANGAN KIMIA ( <i>Thermodynamic &amp; Equilibrium of Chemistry</i> ) | 4  | REAKSI DAN SINTESIS SENYAWA ORGANIK ( <i>Reaction and Synthesis Organic Compound</i> ) | 4   | STRUKTUR DAN FUNGSI BIOMOLEKUL ( <i>Biomolecules of Structural and Functional</i> ) | 2   |    |     |



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**PROGRAM SARJANA (Undergraduate Program)**

| SMT |  |   |  |   |  |   |   |   |   |   | sks   | kumulatif sks |    |    |
|-----|--|---|--|---|--|---|---|---|---|---|---|---------------|----|----|
| IV  | BAHASA INGGRIS II<br>(English Language II)             | 3 | PRAKTIKUM PEMISAHAN KIMIA<br>(Chemical Separation in Practicum)                | 1 | PRAKTIKUM KIMIA ANORGANIK I<br>(Basic of Inorganic Chemistry in Practicum I) | 1 |   |   |   |   |   | 24            | 89 |    |
| III | STUDI AL-QUR'AN & AL-HADIST<br>(Al-qur'an & Al-Hadith) | 2 | PRAKTIKUM KIMIA ANALISIS DASAR<br>(Basic of Analytical Chemistry in Practicum) | 1 | KIMIA UNSUR<br>(Elemental Chemistry)   | 3 | STRUKTUR MATERI<br>(Structure of Matter)                                | 4 | STRUKTUR DAN SIFAT SENYAWA ORGANIK<br>(Structure and character of organic compound) | 3 |   |               | 23 | 65 |
|     | STUDI FIQH<br>(Study of Fiqh)                          | 2 | KIMIA ANALISIS DASAR<br>(Basic of Analytical Chemistry)                        | 3 |  |   | PRAKTIKUM KIMIA FISIK I<br>(Basic of Physical Chemistry in Practicum I) | 1 | PRAKTIKUM ISOLASI SENYAWA ORGANIK<br>(Isolation of Organic Compound in Practicum)   | 1 | BAHASA INGGRIS I<br>(English Language I)      | 3             |    |    |
| II  | BAHASA ARAB IV<br>(Arabic Language IV)                 | 2 | SEJARAH PERADABAN ISLAM<br>(History of Islamic Civilization)                   | 2 | MANAJEMEN LABORATORIUM<br>(Laboratory Management)                            | 1 | PRAKTIKUM KIMIA DASAR II<br>(Basic of Chemistry II in Practicum)        | 1 | INFORMATIKA KIMIA<br>(Chem. Informatics)  | 2 | KIMIA LINGKUNGAN<br>(Environmental Chemistry) | 2             | 21 | 42 |
|     | BAHASA ARAB III<br>(Arabic Language III)               | 2 | TEOSOFI<br>(Theosophy)   | 2 | KEWARGANEGARAAN  | 2 | KIMIA DASAR II<br>(Basic of Chemistry II)                               | 2 | IKATAN KIMIA<br>(Chemical Bond)   | 3 | MA'HAD (Pesantren)                            | 0             |    |    |
| I   | BAHASA ARAB II<br>(Arabic Language II)                 | 2 | FILSAFAT ILMU<br>(Philosophy of Sciences)                                      | 2 | PANCASILA  | 2 | PRAKTIKUM KIMIA DASAR I<br>(Basic of Chemistry I in Practicum)          | 1 | MATEMATIKA DASAR<br>(Basic of Math)   | 3 | FISIKA DASAR<br>(Basic of Physics)            | 3             | 21 | 21 |
|     | BAHASA ARAB I<br>(Arabic Language I)                   | 2 | BAHASA INDONESIA<br>(Bahasa Language)  | 2 | BIOLOGI UMUM<br>(Basic of Biology)   | 2 | KIMIA DASAR I<br>(Basic of Chemistry I)                                 | 2 | MA'HAD (Pesantren)  | 0 |   |               |    |    |



| SMT     |  |   |   |   |  |  | SKS  | Kumulatif SKS |   |  |  |   |    |    |
|---------|--|---|---|---|--|--|--|---------------|---|--|--|---|----|----|
| VII (3) | MK. PILIHAN VI<br>(Elective Course VI)   | 2 | KEMOMETRI<br>(Chemometry)   | 2 |  | RISET KIMIA KOMPUTASI<br>(Chemistry Research in Computational) | 2  | 6             | 74  |  |  |   |    |    |
| VII (2) | MK. PILIHAN V<br>(Elective Course V)     | 2 | KIMIA ANALIS KLINIS FORENSIK<br>(Forensic Clinical Chem Analysis) | 2 | PENGANTAR KRISTALOGRAFI<br>(Introduction of Crystallography) | 2  | KIMIA ZAT PADAT<br>(Solid State Chemistry) | 2             | KIMIA KELAUTAN<br>(Marine Chemistry)                    | 2                                      | BIOKIMIA MEDIS<br>(Medical Biochemistry)       | 2 | 10 | 68 |
| VII (1) | MK. PILIHAN IV<br>(Elective Course IV)   | 2 | TEKNIK UJI HAYATI<br>(Bioassay Technique)                         | 2 | SINTESIS ANORGANIK LANJUT<br>(Adv Inorganic Synthesis)       | 2  | KIMIA MEMBRAN<br>(Membran Chemistry)       | 2             | SINTESIS ORGANIK LANJUT<br>(Advanced Organic Synthesis) | 2                                      | BIOTEKNOLOGI DASAR<br>(Basic of Biotechnology) | 2 | 10 | 58 |
| VI      | MK. PILIHAN III<br>(Elective Course III) | 2 | KIMIA ANALISIS LINGKUNGAN<br>(Environment analytical chem)        | 2 | BIOANORGANIK<br>(BioInorganik)                               | 2  | KIMIA ADSORPSI<br>(Material Chemistry)     | 2             | KIMIA ATSIRI<br>(Chemistry of Essential Oil)            | 2                                      | TEKNIK FERMENTASI<br>(Fermentation Technique)  | 2 | 24 | 48 |
|         |  |   | KIMIA ANALISIS BAHAN PANGAN DAN INDUSTRI<br>(Food Industry Chem)  | 2 | KIMIA KATALIS<br>(Chemistry of Catalyst)                     | 2  | KIMIA POLIMER<br>(Chemistry of Polymer)    | 2             |   | BIOKIMIA PANGAN<br>(Food Biochemistry) | 2  |   |    |    |
|         |  |   | KIMIA SENSOR<br>(Sensor Chemistry)                                | 2 | KIMIA ORGANOLOGAM<br>(Chemistry of Organometallic)           | 2  |  |               |   |  |  |   |    |    |
|         | MK. PILIHAN I<br>(Elective Course I)     | 2 | ELEKTROKIMIA<br>(Electrochemistry)                                | 2 | MINERALOGI<br>(Mineralogy)                                   | 2  | KIMIA MATERIAL<br>(Material Chemistry)     | 2             | KIMIA BAHAN ALAM<br>(Nat. Resources Chem)               | 2                                      | MIKROBIOLOGI<br>(Microbiology)                 | 2 |    |    |



STRUKTUR KURIKULUM KERANGKA KUALIFIKASI NASIONAL (KKNI Curriculum Structure) 2017-2020 - Kategori Mata Kuliah Pilihan

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PROGRAM SARJANA (Undergraduate Program)

| SMT |   |                                       |  |  |  |                                 | SKS | Kumulatif SKS |
|-----|---|---------------------------------------|--|--|--|---------------------------------|-----|---------------|
| V   | PENGOLAHAN PENCEMARAN LINGKUNGAN (Environment Waste Management) 2 |                                       |  |  |  |                                 | 12  | 24            |
| IV  | MK. PILIHAN I (Elective Course I) 2                               | KIMIA KOLOID (Chemistry of Colloid) 2 |  |  |  | STEREOKIMIA (Stereochemistry) 2 | 12  | 12            |
|     |   | AMDAL (Environmental Risk Analisis) 2 | PROSES INDUSTRI KIMIA (Chem. Industrial Process) 2 | KIMIA ZAT ADITIF (Additive chemical) 2 | MANAJEMEN INDUSTRI KIMIA (Chem. Industrial Management) 2 |                                 |     |               |