



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
UNIVERSITAS NEGERI YOGYAKARTA  
**FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM**  
Kampus Karangmalang Yogyakarta 55281  
Telepon (0274) 565411 Pesawat 217, (0274) 565411 (TU), fax. (0274) 548203  
Laman : fmipa.uny.ac.id, E-mail : Surel\_fmipa@uny.ac.id

KEPUTUSAN DEKAN FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM  
Nomor : B/3.7/UN.34.13/HK.03/2022

TENTANG

**TUGAS MENGAJAR DAN MENGUJI DOSEN**  
SEMESTER GENAP TAHUN AKADEMIK 2021/2022

DEKAN FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

- Menimbang : bahwa untuk pelaksanaan tugas pendidikan dan pengajaran pada semester Genap tahun Akademik 2021/2022, perlu menetapkan Keputusan Dekan tentang **Tugas Mengajar dan Menguji Dosen Mata semester Genap tahun Akademik 2021/2022**;
- Mengingat :
1. Undang-undang nomor 12 tahun 2012 tentang Pendidikan Tinggi (Lembaran Negara Republik Indonesia Tahun 2012 Nomor 158, Tambahan Lembaran Negara Republik Indonesia Nomor 5336);
  2. Peraturan Pemerintah Nomor 4 Tahun 2014 tentang Penyelenggaraan Pendidikan Tinggi dan Pengelolaan Perguruan Tinggi (Lembaran Negara Republik Indonesia Tahun 2014 Nomor 16, Tambahan Lembaran Negara Republik Indonesia Nomor 5500);
  3. Peraturan Menteri Riset, Teknologi, dan Pendidikan Tinggi Nomor 35 Tahun 2017 tentang Statuta Universitas Negeri Yogyakarta;
  4. Peraturan Menristek Dikti Nomor 2 Tahun 2019 tentang OTK Universitas Negeri Yogyakarta;
  5. Keputusan Rektor Universitas Negeri Yogyakarta Nomor 1 Tahun 2019 tentang Peraturan Akademik Universitas Negeri Yogyakarta;
  6. Keputusan Menteri Pendidikan dan Kebudayaan Republik Indonesia Nomor 5723/MPK/RHS/KP/2021 tentang Pengangkatan Rektor Universitas Negeri Yogyakarta Periode Tahun 2021-2025 ;
  7. Keputusan Rektor Universitas Negeri Yogyakarta Nomor 1.27/UN34/IX/2019 tentang Pemberhentian dan Pengangkatan Dekan Fakultas di Universitas Negeri Yogyakarta;
  8. SK Rektor Nomor 2.7/UN34/VIII/2020 Tanggal 7 Agustus 2020 tentang Pemindahan Program Magister dan Doktor Bidang Ilmu Monodisipliner dari Pascasarjana ke Jurusan ke Fakultas Tahap Pertama;

MEMUTUSKAN :

- Menetapkan : KEPUTUSAN DEKAN TENTANG TUGAS MENGAJAR DAN MENGUJI DOSEN SEMESTER GENAP TAHUN AKADEMIK 2021/2022
- KESATU : Dosen yang namanya sebagaimana dimaksud dalam Lampiran merupakan dosen tetap Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Negeri Yogyakarta yang diserahkan Tugas Mengajar dan Menguji pada Semester Genap tahun Akademik 2021/2022;

- KEDUA : Dosen yang namanya tersebut sebagaimana dimaksud dalam diktum kesatu mengampu dan menguji mata kuliah program studi masing-masing sebagaimana dimaksud dalam Lampiran;
- KETIGA : Biaya yang diperlukan dengan adanya keputusan ini dibebankan pada anggaran DIPA – BLU Fakultas Matematika dan Ilmu Pengetahuan Alam Tahun 2022;
- KEEMPAT : Keputusan ini berlaku pada tanggal 31 Januari 2022 sampai dengan 8 Juni 2022;

TEMBUSAN Keputusan Dekan ini disampaikan kepada :

1. Rektor UNY;
2. Kepala Biro UNY;
3. Para Wakil Dekan Di FMIPA UNY;
4. Para Koorprodi di FMIPA UNY
5. Koordinator. Tata Usaha di FMIPA
6. Para Sub Koordinator. Di FMIPA UNY;
7. Bendahara Gaji FMIPA UNY;
8. Kepala KPKN di Yogyakarta;
9. Yang bersangkutan untuk diketahui dan dilaksanakan;

Ditetapkan di Yogyakarta

Pada tanggal, 31 Januari 2022

DEKAN FAKULTAS MATEMATIKA DAN ILMU  
PENGETAHUAN ALAM



Prof. Dr. Ariswan, M.Si

NIP. 19590914 198803 1 0037

Lampiran SK Dekan FMIPA UNY

Nomor : B/3.7/UN34.13/HK.03/2022

Tanggal : 31 Januari 2022

**DAFTAR TUGAS MENGAJAR DAN MENGUJI DOSEN**  
**FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM - UNIVERSITAS NEGERI YOGYAKARTA**  
**SEMESTER GENAP TAHUN AKADEMIK 2021/2022**

Nama : Prof. Dr. Hari Sutrisno, M.Si.  
 NIP : 196704071992031002  
 Pangkat : Pembina Utama Muda  
 Golongan : IV/c  
 Jabatan : Guru Besar  
 NPWP : 25.301.586.1-542.000

No	Kode MK	Mata Kuliah	SKS Matakuliah	Sem	Prodi	Rombel	Jenis	SKS Rombel	Beban Mengajar	Jumlah Peserta	Keterangan
1	MKK6309	Kimia Anorganik Non Logam	3	2	PEND. KIMIA - S1	C	Teori	2	1,00	51	TIM
	KIM6409	Kimia Anorganik Non Logam	4	2	PEND. KIMIA - S1	A	Teori	4			
2	KIM6210	Kristalokimia	2	6	KIMIA - S1	B	Teori	2	2,00	30	
3	KIM6242	Kimia Anorganik Zat Padat	2	6	KIMIA - S1	B/E/F	Teori	2	2,00	15	
4	KIM6210	Kristalokimia	2	6	KIMIA - S1	E	Teori	2	2,00	33	
	KMA6210	Kristalokimia	2	6	KIMIA - S1	B/E/F	Teori	2			
5	IPA8207	Kajian Kimia dalam Sistem kehidupan	2	2	PENDIDIKAN SAINS S2	B	Teori	2	1,00	19	TIM
6	MPK8218	Topik Spesial dalam Ilmu Kimia	2	1	PENDIDIKAN KIMIA - S2	Pend. Kimia A/B	Teori	2	1,00	10	TIM
	MPK8218	Topik Spesial dalam Ilmu Kimia	2	1	PENDIDIKAN KIMIA - S2	Pend. Kimia C	Teori	2			
7	PPS8304	Metodologi Penelitian Pendidikan	3	1	PENDIDIKAN KIMIA - S2	Pend. Kimia A	Teori	3	1,50	25	TIM
	PPS8304	Metodologi Penelitian Pendidikan	3	1	PENDIDIKAN KIMIA - S2	Pend. Kimia C	Teori	3			
8	MPK9208	Topik Khusus dalam Kimia Anorganik dan Kimia Fisik	2	1	PENDIDIKAN KIMIA - S3	KIMIA S3	Teori	2	1,00	1	TIM
<b>Jumlah Beban Mengajar</b>									<b>11,50 SKS</b>		



Dekan

Prof. Dr. Ariswan, M.Si.

NIP. 195909141988031003



UNIVERSITAS NEGERI YOGYAKARTA  
**FAKULTAS MATEMATIKA DAN ILMU  
 PENGETAHUAN ALAM**

**DAFTAR HADIR KULIAH  
 SEMESTER TAHUN AJARAN 2021/2022**

Program Studi : PEND. KIMIA - S1  
 Kelas : C  
 Jumlah Peserta : 50

Nama Dosen : 1. Dr. Kun Sri Budiasih, M.Si.  
 2. Prof. Dr. Hari Sutrisno, M.Si.  
 Mata Kuliah : MKK6309 - Kimia Anorganik Non Logam

No.	No. Mhs.	Nama Mahasiswa	Tanggal																Ket.
			31/01	07/02	14/02	21/02	07/03	14/03	21/03	28/03	04/04	11/04	18/04	25/04	16/05	23/05	30/05	06/06	
1	21303241027	Adelia Fitri Handayani	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
2	21303241028	Rusmiyanti	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
3	21303241029	Himawari Putri Ai	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
4	21303241030	Galuh Fidyaa Pratiwi	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
5	21303241031	Nurprastiwi	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
6	21303241033	Wahyu Nur Isnaeni	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
7	21303241034	Nurlaila Umi Hasanah	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
8	21303241035	Annisak Arum Rohmawati	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
9	21303241036	Miftahul Jannah	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
10	21303241037	Badi'atul Masngudah	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
11	21303241038	Dea Andjani	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
12	21303241039	Risa Kharimah	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
13	21303241040	Indi Mutiara Ningrum	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
14	21303241041	Arfianda Adeka Putri	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
15	21303241042	Nasya Adilla Parhade	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
16	21303241043	Annisa Fitriana	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
17	21303241044	Salma Salsabila	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
18	21303241045	Ghina Aprilia	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
19	21303241047	Vebiola Tiara Yhana	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
20	21303241049	Nasytha Hanifa	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
<b>Jumlah Mahasiswa yang hadir</b>			<b>27</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	
<b>Tanda tangan (paraf) dosen pengajar</b>																			



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**FAKULTAS MATEMATIKA DAN ILMU  
 PENGETAHUAN ALAM**

**DAFTAR HADIR KULIAH  
 SEMESTER TAHUN AJARAN 2021/2022**

Program Studi : PEND. KIMIA - S1

Nama Dosen : 1. Dr. Kun Sri Budiasih, M.Si.  
 2. Prof. Dr. Hari Sutrisno, M.Si.

Kelas : C

Mata Kuliah : MKK6309 - Kimia Anorganik Non Logam

Jumlah Peserta : 50

No.	No. Mhs.	Nama Mahasiswa	Tanggal															Ket.	
			31/01	07/02	14/02	21/02	07/03	14/03	21/03	28/03	04/04	11/04	18/04	25/04	16/05	23/05	30/05		06/06
21	21303241050	Ghoisun Agus Kholilurohman	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
22	21303241051	Muhammad Sigit Nurhadi	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
23	21303241052	Ghaitsha Rumaisha Zahwa Azizahira	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
24	21303241053	Sidiq Bayu Setyawan	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
25	21303241054	Ardi Kurnia Setiawan	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
26	21303241056	Haritsma	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
27	21303241057	Julia Utami	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
28	21303241058	Alya Atifah	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
29	21303244001	Fadhila Nisaulmuna	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
30	21303244002	Marsa Sofiana Shabila	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
31	21303244003	Amelia Noormufida Widya Hartanti	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
32	21303244004	Rahma Primadani Putri	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
33	21303244005	Khumaira Al Husni	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
34	21303244006	Alya Nur'aini	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
35	21303244007	Isti Hanifah	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
36	21303244034	Salvana Eka Nabila	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
37	21303244035	Eka Laila Fikriani	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
38	21303244036	Aisyah Nur Kamila	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
39	21303244037	Luthfia Satyaloka	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
40	21303244038	Marwah Az Zahra	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
<b>Jumlah Mahasiswa yang hadir</b>			<b>27</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	
<b>Tanda tangan (paraf) dosen pengajar</b>																			



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**FAKULTAS MATEMATIKA DAN ILMU  
 PENGETAHUAN ALAM**

**DAFTAR HADIR KULIAH  
 SEMESTER TAHUN AJARAN 2021/2022**

Program Studi : PEND. KIMIA - S1  
 Kelas : C  
 Jumlah Peserta : 50

Nama Dosen : 1. Dr. Kun Sri Budiasih, M.Si.  
 2. Prof. Dr. Hari Sutrisno, M.Si.  
 Mata Kuliah : MKK6309 - Kimia Anorganik Non Logam

No.	No. Mhs.	Nama Mahasiswa	Tanggal																Ket.
			31/01	07/02	14/02	21/02	07/03	14/03	21/03	28/03	04/04	11/04	18/04	25/04	16/05	23/05	30/05	06/06	
41	21303244039	Wina Larasati	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
42	21303244040	Sabrina Yulia	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
43	21303244041	Esthiningtyas Putri Sulistiyo	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
44	21303244042	Karina Tampi Nugraheni	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
45	21303244043	Finda Nafiatun Nida	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
46	21303244044	Ananda Sri Herlinda Pranidya	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
47	21303244045	Nadia Maysharoh	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
48	21303244046	M. Ridwan Rambu Rabani	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
49	21303244047	Arina Lisa Pratiwi	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
50	21303244048	Alya Nurisma	TH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
<b>Jumlah Mahasiswa yang hadir</b>			<b>27</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	
<b>Tanda tangan (paraf) dosen pengajar</b>																			



UNIVERSITAS NEGERI YOGYAKARTA  
**FAKULTAS MATEMATIKA DAN ILMU  
 PENGETAHUAN ALAM**

**MONITORING KEGIATAN MENGAJAR DOSEN  
 SEMESTER TAHUN AJARAN 2021/2022  
 FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNY**

Program Studi : PEND. KIMIA - S1  
 Kelas : C  
 Nama Dosen : 1. Dr. Kun Sri Budiasih, M.Si.  
 2. Prof. Dr. Hari Sutrisno, M.Si.  
 Mata Kuliah : MKK6309 - Kimia Anorganik Non Logam

No.	Pertemuan Ke	Hari/Tanggal	Materi Yang diajarkan	Jam		Jml Mhsw	Paraf Dosen	Paraf Mhsw	Keterangan
				Masuk	Keluar				
1	1	Senin, 31 Januari 2022	Pendahuluan	12:40:00	14:20:00	27			
2	2	Senin, 7 Februari 2022	Teori atom	12:40:00	14:20:00	50			
3	3	Senin, 14 Februari 2022	Teori Lewis	12:40:00	14:20:00	50			
4	4	Senin, 21 Februari 2022	Teori VSEPR	12:40:00	14:20:00	50			
5	5	Senin, 7 Maret 2022	Muatan Formal dan resonansi	12:40:00	14:20:00	50			
6	6	Senin, 14 Maret 2022	Teori Asam Basa Keras Lunak	12:40:00	14:20:00	50			
7	7	Senin, 21 Maret 2022	Teori Asam basa Sistem Pelarut	12:40:00	14:20:00	50			
8	8	Senin, 28 Maret 2022	teori Asam basa Frontier Orbital	12:40:00	14:20:00	50			
9	9	Senin, 4 April 2022	Ujian Tengah Semester	12:40:00	14:20:00	50			
10	10	Senin, 11 April 2022	Pendahuluan Senyawa non-Logam	12:40:00	14:20:00	50			
11	11	Senin, 18 April 2022	- Hidrogen	12:40:00	14:20:00	50			
12	12	Senin, 25 April 2022	-Boron	12:40:00	14:20:00	50			
13	13	Senin, 16 Mei 2022	- Karbon dan unsur segolongan	12:40:00	14:20:00	50			
14	14	Senin, 23 Mei 2022	-presentasi dan diskusi 1 : Oksigen dan nitrogen	12:40:00	14:20:00	50			
15	15	Senin, 30 Mei 2022	-presentasi dan diskusi: Fosfor dan Belerang	12:40:00	14:20:00	50			
16	16	Senin, 6 Juni 2022	diskusi lanjutan golongan Halogen	12:40:00	14:20:00	50			

Yogyakarta, .....

Mengetahui,  
 Ketua Jurusan

(.....)



UNIVERSITAS NEGERI YOGYAKARTA  
**FAKULTAS MATEMATIKA DAN ILMU  
 PENGETAHUAN ALAM**

**DAFTAR HADIR KULIAH  
 SEMESTER TAHUN AJARAN 2021/2022**

Program Studi : PEND. KIMIA - S1  
 Kelas : A  
 Jumlah Peserta : 1

Nama Dosen : 1. Dr. Kun Sri Budiasih, M.Si.  
 2. Prof. Dr. Hari Sutrisno, M.Si.  
 Mata Kuliah : KIM6409 - Kimia Anorganik Non Logam

No.	No. Mhs.	Nama Mahasiswa	Tanggal															Ket.		
			31/01	07/02	14/02	21/02	07/03	14/03	21/03	28/03	04/04	11/04	18/04	25/04	16/05	23/05	30/05		06/06	
1	19303241050	Alfiana Hasna Aisyah	TH	H	H	H	H	H	H	H	H	H	H	TH	TH	H	H	H		
<b>Jumlah Mahasiswa yang hadir</b>			<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	
<b>Tanda tangan (paraf) dosen pengajar</b>																				





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 SEMESTER TAHUN AJARAN 2021/2022  
 FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNY**

Program Studi : PEND. KIMIA - S1  
 Kelas : A  
 Nama Dosen : 1. Dr. Kun Sri Budiasih, M.Si.  
 2. Prof. Dr. Hari Sutrisno, M.Si.  
 Mata Kuliah : KIM6409 - Kimia Anorganik Non Logam

No.	Pertemuan Ke	Hari/Tanggal	Materi Yang diajarkan	Jam		Jml Mhsw	Paraf Dosen	Paraf Mhsw	Keterangan
				Masuk	Keluar				
1	1	Senin, 31 Januari 2022	Pendahuluan	12:40:00	14:20:00	0			
2	2	Senin, 7 Februari 2022	Teori atom	12:40:00	14:20:00	1			
3	3	Senin, 14 Februari 2022	Teori Lewis	12:40:00	14:20:00	1			
4	4	Senin, 21 Februari 2022	Teori VSEPR	12:40:00	14:20:00	1			
5	5	Senin, 7 Maret 2022	Muatan Formal dan resonansi	12:40:00	14:20:00	1			
6	6	Senin, 14 Maret 2022	Teori Asam Basa Keras Lunak	12:40:00	14:20:00	1			
7	7	Senin, 21 Maret 2022	Teori Asam basa Sistem Pelarut	12:40:00	14:20:00	1			
8	8	Senin, 28 Maret 2022	teori Asam basa Frontier Orbital	12:40:00	14:20:00	1			
9	9	Senin, 4 April 2022	Ujian Tengah Semester	12:40:00	14:20:00	1			
10	10	Senin, 11 April 2022	Pendahuluan Senyawa non-Logam	12:40:00	14:20:00	1			
11	11	Senin, 18 April 2022	- Hidrogen	12:40:00	14:20:00	1			
12	12	Senin, 25 April 2022	-Boron	12:40:00	14:20:00	0			
13	13	Senin, 16 Mei 2022	- Karbon dan unsur segolongan	12:40:00	14:20:00	0			
14	14	Senin, 23 Mei 2022	-presentasi dan diskusi 1 : Oksigen dan nitrogen	12:40:00	14:20:00	1			
15	15	Senin, 30 Mei 2022	-presentasi dan diskusi: Fosfor dan Belerang	12:40:00	14:20:00	1			
16	16	Senin, 6 Juni 2022	diskusi lanjutan golongan Halogen	12:40:00	14:20:00	1			

Yogyakarta, .....

Mengetahui,  
 Ketua Jurusan

(.....)

**FORM PENILAIAN****KELAS Reguler****SEMESTER Gasal TAHUN 2022****PROGRAM STUDI** : PEND. KIMIA - S1**PENGAMPU** : Prof. Dr. Hari Sutrisno M.Si.**JUMLAH PESERTA** : 50**KELAS** : C

NO	NIM	NAMA	NILAI [HURUF]
1	21303241027	Adelia Fitri Handayani	K
2	21303241028	Rusmiyanti	B-
3	21303241029	Himawari Putri Ai	B-
4	21303241030	Galuh Fidya Pratiwi	B+
5	21303241031	Nurprastiwi	B-
6	21303241033	Wahyu Nur Isnaeni	B-
7	21303241034	Nurlaila Umi Hasanah	E
8	21303241035	Annisak Arum Rohmawati	B-
9	21303241036	Miftahul Jannah	B-
10	21303241037	Badi'atul Masngudah	B-
11	21303241038	Dea Andjani	B-
12	21303241039	Risa Kharimah	B
13	21303241040	Indi Mutiara Ningrum	B
14	21303241041	Arfianda Adeka Putri	B-
15	21303241042	NASYA ADILLA PARHADE	B-
16	21303241043	Annisa Fitriana	B-
17	21303241044	Salma Salsabila	B+
18	21303241045	Ghina Aprilia	B-
19	21303241047	Vebiola Tiara Yhana	B
20	21303241049	Nasytha Hanifa	B+
21	21303241050	GHOISUN AGUS KHOLILUROHMAN	B-
22	21303241051	Muhammad Sigit Nurhadi	B-
23	21303241052	Ghaitsha Rumaisha Zahwa Azizahira	B-
24	21303241053	Sidiq Bayu Setyawan	B-
25	21303241054	Ardi Kurnia Setiawan	B-
26	21303241056	Haritsma	B-
27	21303241057	Julia Utami	B
28	21303241058	Alya Atifah	B+
29	21303244001	Fadhila Nisaulmuna	B-
30	21303244002	Marsa Sofiana Shabila	B+

31	21303244003	Amelia Noormufida Widya Hartanti	B
32	21303244004	Rahma Primadani Putri	B
33	21303244005	Khumaira Al Husni	B-
34	21303244006	Alya Nur'aini	B-
35	21303244007	Isti Hanifah	B-
36	21303244034	Salvana Eka Nabila	B
37	21303244035	Eka Laila Fikriani	K
38	21303244036	Aisyah Nur Kamila	B-
39	21303244037	Luthfia Satyaloka	B+
40	21303244038	Marwah AZ Zahra	K
41	21303244039	Wina Larasati	B-
42	21303244040	Sabrina Yulia	B-
43	21303244041	Esthiningtyas Putri Sulistiyo	B-
44	21303244042	Karina Tampi Nugraheni	B
45	21303244043	Finda Nafiatun Nida	B-
46	21303244044	Ananda Sri Herlinda Pranidya	B-
47	21303244045	Nadia Maysharoh	B-
48	21303244046	M. Ridwan Rambu Rabani	B-
49	21303244047	Arina Lisa Pratiwi	B-
50	21303244048	Alya Nurisma	B-

Rekap Nilai : A = ..... , B = ..... , C = ..... , D = ..... , E/K = .....

Yogyakarta , .....

Dosen/Koord. Team Penguji :

(.....)



**UNIVERSITAS NEGERI YOGYAKARTA**  
**FACULTY MATHEMATICS AND NATURALE SCIENCE**  
**BACHELOR OF EDUCATION IN CHEMISTRY**

**SEMESTER LEARNING PLAN (SLP)**

<b>COURSE</b>	<b>CODE</b>	<b>COURSE GROUP</b>	<b>CREDIT UNIT (sks)</b>	<b>SEM.</b>	<b>DEVELOPMENT DATE</b>
Inorganic Chemistry of Non-Metalic	MKK 6309	Course in Bachelor of Education in Chemistry	2	1	May 29, 2020
Authorization	<b>Course Lecturer</b>				<b>Head of Study Program</b>
	Prof. Dr. Hari Sutrisno, M.Si. Dr. Kun Sri Budiasih, M.Si				Dr. Retno Arianingrum, M.Si
<b>Learning Outcomes (LO) – Study Program</b>					
<b>Learning Outcomes</b>	<b>Attitude and Value</b>	LO1. Enabling to cooperate and having good morals, ethics and personality in completing their duties, social sensitivity and high concern for the community and its environment. LO2. Respect to the diversity of cultures, views, beliefs, and religions as well as other people's original opinions/ findings and love the country and support world peace as citizens LO3. Upholding the rule of law and having the spirit to prioritize the interests of the nation and the wider community. LO4. Enabling to internalize the entrepreneurial spirit, academic values and norms that are properly related to honesty, ethics, attribution, copyright, confidentiality and ownership of data			

	<b>Work Ability</b>	<p>LO5. Implementing and developing knowledge and technology in the field of chemistry education through reasoning and scientific research based on logical, critical, systematic, and creative thinking.</p> <p>LO6. Developing chemistry education through scientific research, or producing scientific works along with study concepts based on scientific rules arranged in the form of a thesis.</p> <p>LO7. Publishing the results of research in the field of chemistry education in scientific journals nationally and internationally accredited.</p> <p>LO8. Increasing the capacity of independent learning.</p> <p>LO9. Having structured learning skills for self-development, science, and career sustainability.</p> <p>LO10. Enabling to think critically, make informed decisions, and communicate effectively, academically, and ethically.</p>
	<b>Knowledge Assignment</b>	<p>LO11. Documenting, storing, auditing, securing, and rediscovering research data for further research purposes.</p> <p>LO12. Identifying the scientific field of the research object and positioning it into a research map.</p> <p>LO13. Carrying out chemistry education research based on research maps, with an inter- or multi-disciplinary approach, independently or in collaboration with other institutions.</p>
	<b>Authority and Responsibility</b>	<p>LO14. Developing and maintaining networks with colleagues, including in the broader research institutions and communities.</p> <p>LO15. Arranging and communicating ideas and arguments that can be scientifically accountable and academic ethics, through various forms of media to the community, especially the academic community.</p>
	<b>Course Outcomes</b>	
Course Outcomes	CO1	Demonstrate an awareness of responsible and ethical conducts as well integrity in the context of their profession and obligations to society
	CO2	Demonstrate knowledge of advanced theories and methods of chemistry

	CO3	Demonstrate proficiency in analyzing, applying, and solving engineering problems using the acquired chemical methods.
	CO4	Demonstrate the problem solving ability in understand, extract and analyze engineering problems and reorganize the knowledge in chemistry forms for specific purposes
	CO5	Ability to convey ideas on chemistry knowledge clearly and effectively in both written and spoken forms. In addition, ability to work collaboratively as part of a team undertaking a range of different team roles
	CO6	Demonstrate the awareness of contemporary issues in Inorganic chemistry and the ability to respond the challenges
	CO7	Ability to pursue independent study and demonstrate the awareness for lifelong learning and professional development
Deskripsi Singkat MK	Crystallochemistry courses are courses for students of Bachelor of Education in Chemistry with descriptions including: chemical structure description, symmetry and molecular groups, chemical bonds and lattice energy, molecular structures 1(compounds of the main group elements) and 2 (transition metal compounds), crystal gratings, symmetry and groups crystals, X-ray diffraction instruments and determination of simple crystal structures. This course aims to enable students to understand the structure and grid contained in molecular compounds 1 and 2.	
Materi Pembelajaran/ Pokok Bahasan	<p>Subjects include:</p> <ol style="list-style-type: none"> <li>1. Struktur Atom dan Molekul <ol style="list-style-type: none"> <li>a. Struktur Atom <ol style="list-style-type: none"> <li>1). Model Mekanika Klasik</li> <li>2). Model Mekanika Kuantum</li> <li>4). Konfigurasi Elektron</li> <li>5). Energi Ionisasi</li> <li>6). Afinitas Elektron</li> <li>7). Keelektronegatifan</li> </ol> </li> <li>b. Struktur Molekul <ol style="list-style-type: none"> <li>1). Orbital Atom dan Molekul</li> <li>2) Kombinasi Orbital Atom</li> <li>3). Geometri Molekul yang Memiliki Ikatan Tunggal</li> </ol> </li> </ol> </li> <li>2. Teori Ikatan Sederhana</li> </ol>	

	<ul style="list-style-type: none"> <li>a. Teori Lewis <ul style="list-style-type: none"> <li>1). Resonansi</li> <li>2). Muatan Formal</li> </ul> </li> <li>b. Teori Tolakan Pasangan Elektron Kulit Valensi (VSEPR)</li> <li>c. Molekul Polar</li> <li>3. Model Ikatan Kovalen <ul style="list-style-type: none"> <li>a. Teori Ikatan Valensi</li> <li>b. Teori Orbital Molekul</li> </ul> </li> <li>4. Asam dan Basa <ul style="list-style-type: none"> <li>a. Konsep Asam-Basa</li> <li>b. Konsep Asam Basa Sistem Pelarut</li> <li>c. Konsep Asam-Basa <i>Frontier Orbital</i></li> <li>d. Konsep Asam Keras- Lunak <ul style="list-style-type: none"> <li>1). Prinsip Asam-Basa Keras-Lunak</li> <li>2). Penerapan Prinsip Interaksi Keras-Lunak</li> </ul> </li> <li>e. Superasam</li> </ul> </li> <li>5. Kimia dalam Pelarut Air dan Non-Air <ul style="list-style-type: none"> <li>a. Pelarut Air</li> <li>b. Pelarut Non-Air</li> <li>c. Potensial Elektroda dan Gaya Gerak Listrik (emf)</li> </ul> </li> <li>6. Oksigen dan Turunannya</li> <li>7. Oksigen dan Turunannya</li> <li>8. Hidrogen dan Turunannya</li> <li>9. Fosfor dan Turunannya</li> <li>10. Golongan Halida</li> <li>11. Golongan gas Mulia</li> </ul>
References	<b>Primary</b>
	<p>Barret, J. (2003). <i>Inorganic Chemistry in Aqueous Solution</i>. Cambridge: Royal Society Chemistry.</p> <p>Lee, J. D. (1991). <i>Concise Inorganic Chemistry</i>. New York: Chapman &amp; Hall.</p>

	<p>Miessler, G. L. &amp; Tarr, D. A. (2000). <i>Inorganic Chemistry</i>. Minnesota: Pearson Prentice Hall.</p> <p>Rayner-Canham, G. &amp; Overton, T. (2003). <i>Descriptive Inorganic Chemistry</i>. New York: W. H. Freeman and Company.</p> <p>Sugiyarto, K. H., Sutrisno, H. &amp; Suyanti, R. D. (2013). <i>Dasar-Dasar Kimia Anorganik Non Logam</i>. Yogyakarta: UNY Press.</p>	
	<b>Support</b>	
	S1. Journal Inorganic Chemistry	
<b>Instructional Media</b>	<b>Software</b>	<b>Hardware</b>
	File dan Powerpoint	Laptop Board and stationery Projector
<b>Team-Teaching</b>	-	
<b>Prerequisite Course</b>	-	



## LEARNING ACTIVITIES

week	Sub-CLO	Indicator	Criteria & Form of Assessment	Learning Method (Estimated Time)	Learning Materials (Library)	Quality of Ass. (%)
1	Describe chemical structure and symmetry	<ol style="list-style-type: none"> <li>1. Students can describe chemical structures</li> <li>2. Students are able to explain the symmetry of a chemical compound</li> </ol>	Assessment Criteria: logic and meaningfulness Form of assessment: Observation with the class Observation rubric	<i>Direct Instruction</i> 2 x 50 minute	P1, P2, P3	2%
2-3	Analyze polymorphism and the phase of transition from chemical compounds	Students are able to analyze the polymorphism and transition phase of various chemical compounds	Assessment Criteria: logic and meaningfulness Form of assessment: Observation with the class Observation rubric	<i>Direct Instruction</i> 4 x 50 minute	P1, P2	2%
4-5	Analyzing chemical bonds and lattice energy contained in chemical compounds	Students are able to analyze chemical bonds and lattice energy that occur in various chemical compounds	Assessment Criteria: logic and meaningfulness Form of assessment: Observation with the class Observation rubric	<i>Direct Instruction</i> 2 x 50 minute	P1, P4	2%

6-7	Explain atomic size effects	<ol style="list-style-type: none"> <li>1. Students are able to explain the definition of atomic size effects</li> <li>2. Students can explain the factors that influence the size effect of an atom</li> </ol>	<p>Assessment Criteria: logic and meaningfulness</p> <p>Form of assessment: Observation with the class</p> <p>Observation rubric</p>	<p><i>Direct Instruction</i></p> <p>2 x 50 minute</p>	P1, P3, P4	2%
<b>8</b>	<b>Midterm Exam</b>					<b>40%</b>
9-10	Analyze the molecular structure in group 1: compounds of the main group elements	Students are able to analyze group theory contained in the compounds of the main group elements	<p>Assessment Criteria: logic and meaningfulness</p> <p>Form of assessment: Observation with the class</p> <p>Observation rubric</p>	<p>Direct Instruction</p> <p>Individual task</p> <p>6 x 50 minute</p>	P1, P2, P3	2%
11-12	Analyzing the molecular structure of group 2: transition metal compounds	Students are able to analyze group theory contained in the compounds of the main group elements	<p>Assessment Criteria: logic and meaningfulness</p> <p>Form of assessment: Observation with the class</p> <p>Observation rubric</p>	<p>Direct Instruction</p> <p>Individual task</p> <p>4 x 50 minute</p>	P1, P3	2%
13	Analyze the structure of nonmetal elements	<ol style="list-style-type: none"> <li>1. Students are able to analyze chemical structures not metals</li> <li>2. Students are able to analyze group theory and lattice found in non-metal compounds</li> </ol>	<p>Assessment Criteria: logic and meaningfulness</p> <p>Form of assessment: Observation with the class</p> <p>Observation rubric</p>	<p>Direct Instruction</p> <p>Individual task</p> <p>4x 50 minute</p>	P1, P3, S1	4%

14-15	Analyze structures like diamonds	<ol style="list-style-type: none"> <li>1. Students are able to analyze chemical structures not metals</li> <li>2. Students are able to analyze group theory and lattice found in non-metal compounds</li> </ol>	<p>Assessment Criteria: logic and meaningfulness</p> <p>Form of assessment: Observation with the class</p> <p>Observation rubric</p>	<p>Direct Instruction</p> <p>Individual task</p> <p>4 x 50 minute</p>	P1, S1	4%
<b>16</b>	<b>Final Exams</b>					<b>40%</b>

### ASSESSMENT WEIGHT

No	CO	Object of assessment	Valuation Techniques	Quality
1	CO 3	The independent task of writing and / or listening skills	Assignment	15%
2	CO 5 dan 7	Structured tasks are reading and / or writing skills	Assignment	15%
3	CO 3, 4	Speaking ability and presentation skills journal analysis (Skills)	Speaking ability	10%
4	CO 1 dan 2	Attitude and Value	Observation of Attitude	10%
5	CO 3, 5 dan 6	Midterm Exam	Written Test	25%
6	CO 3; 6; dan 7	Final Exam	Written Test	25%
<b>Total</b>				<b>100%</b>

## LO AND CO MAPPING

		Learning Outcomes (LO)																	
		Attitude and Value						Work Ability						Knowledge Assignment			Authority and Responsibility		
		LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10	LO11	LO12	LO13	LO14	LO15	LO16	LO17	LO18
<b>Course : MKK 6309- Inorganic Chemistry of Non-Metalic</b>																			
<b>Course Outcomes</b>	CO1	√		√	√		√												
	CO2								√	√									
	CO3		√										√						
	CO4							V						√	√				
	CO5		√			√					√			√		√			
	CO6							√				√			√		√		
	CO7															√			√

### Course Outcomes

- CO1 : Demonstrate an awareness of responsible and ethical conducts as well integrity in the context of their profession and obligations to society
- CO1 : Demonstrate knowledge of advanced theories and methods of chemistry
- CO2 : Demonstrate proficiency in analyzing, applying, and solving engineering problems using the acquired chemical methods.
- CO3 : Demonstrate the problem solving ability in understand, extract and analyze engineering problems and reorganize the knowledge in chemistry forms for specific purposes
- CO4 : Ability to convey ideas on chemistry knowledge clearly and effectively in both written and spoken forms. In addition, ability to work collaboratively as part of a team undertaking a range of different team roles
- CO5 : Demonstrate the awareness of contemporary issues in Inorganic chemistry and the ability to respond the challenges
- CO7 : Ability to pursue independent study and demonstrate the awareness for lifelong learning and professional development

Knowing,  
Head of Study Program

Dr. Retno Arianingrum, M.Si

Yogyakarta, May 29, 2020  
Lecturer

Prof. Dr. Hari Sutrisno, M.Si