



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
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KEPUTUSAN DEKAN FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
Nomor : B/123/UN.34.13/HK.03/2022

TENTANG
TUGAS MENGAJAR DAN MENGUJI DOSEN
SEMESTER GASAL TAHUN AKADEMIK 2022/2023

DEKAN FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

- Menimbang : bahwa untuk pelaksanaan tugas pendidikan dan pengajaran pada semester Gasal tahun Akademik 2022/2023, perlu menetapkan Keputusan Dekan tentang **Tugas Mengajar dan Menguji Dosen Mata Kuliah** semester Gasal tahun Akademik 2022/2023;
- 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;

M E M U T U S K A N :

Menetapkan : KEPUTUSAN DEKAN TENTANG TUGAS MENGAJAR DAN MENGUJI DOSEN SEMESTER GASAL TAHUN AKADEMIK 2022/2023

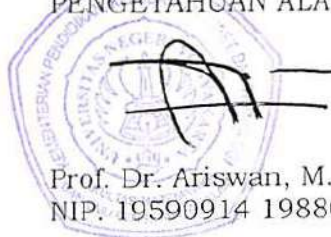
KESATU : Dosen yang namanya sebagaimana dimaksud dalam Lampiran merupakan dosen tetap Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Negeri Yogyakarta yang disertai Tugas Mengajar dan Menguji pada Semester Gasal tahun Akademik 2022/2023;

- 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 29 Agustus 2022 sampai dengan 31 Januari 2023

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 Administrasi di FMIPA
6. Sekretaris Administrasi 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, 29 Agustus 2022
DEKAN FAKULTAS MATEMATIKA DAN ILMU
PENGETAHUAN ALAM



Prof. Dr. Ariswan, M.Si
NIP. 19590914 198803 1 003_y

Lampiran SK Dekan FMIPA UNY

Nomor : B/123/UN34.13/HK.03/2022

Tanggal : 29 Agustus 2022

DAFTAR TUGAS MENGAJAR DAN Menguji DOSEN
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM - UNIVERSITAS NEGERI YOGYAKARTA
SEMESTER GASAL TAHUN AKADEMIK 2022/2023

Nama : Prof. Dr. Hari Sutrisno, M.Si.
NIP : 196704071992031002
Pangkat : Pembina Utama Madya
Golongan : IV/d
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	KIM6223	Kristalokimia	2	5	KIMIA - S1	F	Teori	2	2,00	30		
2	KIM6223	Kristalokimia	2	5	KIMIA - S1	E	Teori	2	2,00	35		
3	KIM6223	Kristalokimia	2	5	KIMIA - S1	B	Teori	2	2,00	35		
4	MPK8206	Kimia Struktur Anorganik	2	1	PENDIDIKAN KIMIA - S2	Pend. Kimia B	Teori	2	2,00	23		
5	MPK8206	Kimia Struktur Anorganik	2	1	PENDIDIKAN KIMIA - S2	Pend. Kimia A	Teori	2	2,00	20		
6	MPK8218	Topik Spesial dalam Ilmu Kimia	2	1	PENDIDIKAN KIMIA - S2	Pend. Kimia S2 Pilihan	Teori	2	1,00	7	TIM	
7	FM18303	Metodologi Penelitian Pendidikan	3	1	PENDIDIKAN KIMIA - S2	Pend. Kimia A	Teori	3	1,50	19	TIM	
8	MPK9210	Penulisan Proposal Disertasi	2	3	PENDIDIKAN KIMIA - S3	KIMIA S3 (Pend. Kimia)	Teori	2	1,00	1	TIM	
									Jumlah Beban Mengajar	13,50 SKS		





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

**DAFTAR HADIR KULIAH
 SEMESTER TAHUN AJARAN 2022/2023**

Program Studi : PENDIDIKAN KIMIA - S2
 Kelas : Pend. Kimia A
 Jumlah Peserta : 20

Nama Dosen : Prof. Dr. Hari Sutrisno, M.Si.
 Mata Kuliah : MPK8206 - Kimia Struktur Anorganik

No.	No. Mhs.	Nama Mahasiswa	Tanggal															Ket.	
			31/08	07/09	13/09	20/09	27/09	04/10	11/10	18/10	25/10	01/11	08/11	15/11	22/11	29/11	06/12		13/12
1	20328251006	Ester Masriat	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
2	21328251023	Syafira Rachmatyah Ulliva	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
3	22328251001	Titah Nor Fahmi	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
4	22328251002	Titis Wulandari	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
5	22328251003	Gustafo Johansen Wilar	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
6	22328251004	F. Khoirunnisa Gultom	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
7	22328251005	Binti Mutammimah	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
8	22328251006	Lani Dwi Kurnia	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
9	22328251007	Nely Tonapa	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
10	22328251008	Nur Elisa Hawa T	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
11	22328251009	Putri Mar Atus Shalihah	H	H	H	H	H	H	M	M	M	M	M	H	H	H	M	H	
12	22328251011	Mega Syahirah	H	H	H	H	M	H	M	M	M	M	M	H	H	H	M	H	
13	22328251012	Muhammad Hisyam	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
14	22328251013	Ida Nurjelita Sani	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
15	22328251014	Sandra Desfa Jayanti	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
16	22328251015	Elsima Nainggolan	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
17	22328251016	Chesa Defista	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
18	22328251017	Ade Kurnia Putri Tanjung	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
19	22328251018	Suryani S Situmorang	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
20	22328251019	Muhammad Fikri M Basri	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
Jumlah Mahasiswa yang hadir			20	20	20	20	19	20	18	18	18	18	18	20	20	20	18	20	
Tanda tangan (paraf) dosen pengajar																			



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

**MONITORING KEGIATAN MENGAJAR DOSEN
 SEMESTER TAHUN AJARAN 2022/2023
 FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNY**

Program Studi : PENDIDIKAN KIMIA - S2
 Kelas : Pend. Kimia A
 Nama Dosen : Prof. Dr. Hari Sutrisno, M.Si.
 Mata Kuliah : MPK8206 - Kimia Struktur Anorganik

No.	Pertemuan Ke	Hari/Tanggal	Materi Yang diajarkan	Jam		Jml Mhsw	Paraf Dosen	Paraf Mhsw	Keterangan
				Masuk	Keluar				
1	1	Rabu, 31 Agustus 2022	Pendahuluan	15:40:00	17:20:00	20			
2	2	Rabu, 7 September 2022	Teori Lewis dan Teori Tolakan Pasangan Elektron Valensi (VSEPR)	15:40:00	17:20:00	20			
3	3	Selasa, 13 September 2022	Lanjutan Teori VSEPR	09:20:00	11:00:00	20			
4	4	Selasa, 20 September 2022	Unsur dan Simetri Molekul	09:20:00	11:00:00	20			
5	5	Selasa, 27 September 2022	Unsur dan Simetri Kristal	09:20:00	11:00:00	19			
6	6	Selasa, 4 Oktober 2022	Grup Kristal	09:20:00	11:00:00	20			
7	7	Selasa, 11 Oktober 2022	Grup Kristalin	09:20:00	11:00:00	18			
8	8	Selasa, 18 Oktober 2022	UTS	09:20:00	11:00:00	18			
9	9	Selasa, 25 Oktober 2022	Unit Sel dan Kristal 3 Dimensi	09:20:00	11:00:00	18			
10	10	Selasa, 1 Nopember 2022	Kristal Sederhana	09:20:00	11:00:00	18			
11	11	Selasa, 8 Nopember 2022	Sumber Sinar-X	09:20:00	11:00:00	18			
12	12	Selasa, 15 Nopember 2022	Analisis XRD-Trial & Error	09:20:00	11:00:00	20			
13	13	Selasa, 22 Nopember 2022	Analisis XRD -Analitik	09:20:00	11:00:00	20			
14	14	Selasa, 29 Nopember 2022	Analisis XRD-Grafik	09:20:00	11:00:00	20			
15	15	Selasa, 6 Desember 2022	Penentuan Struktur dengan Program Komputer	09:20:00	11:00:00	18			
16	16	Selasa, 13 Desember 2022	UAS	09:20:00	11:00:00	20			

Yogyakarta,

Mengetahui,
 Ketua Jurusan

(.....)

FORM PENILAIAN
KELAS Reguler
SEMESTER Genap TAHUN 2022

PROGRAM STUDI : PENDIDIKAN KIMIA - S2
PENGAMPU : Prof. Dr. Hari Sutrisno M.Si.
JUMLAH PESERTA : 20
KELAS : S2_A

NO	NIM	NAMA	NILAI [HURUF]
1	20328251006	Ester Masriat	E
2	21328251023	Syafira Rachmatyah Ulliva	E
3	22328251001	Titah Nor Fahmi	B+
4	22328251002	Titis Wulandari	B+
5	22328251003	Gustafo Johansen Wilar	B-
6	22328251004	F. Khoirunnisa Gultom	A
7	22328251005	Binti Mutammimah	B+
8	22328251006	Lani Dwi Kurnia	B+
9	22328251007	Nely Tonapa	B+
10	22328251008	Nur Elisa Hawa T	B+
11	22328251009	Putri Mar Atus Shalihah	E
12	22328251011	Mega Syahirah	E
13	22328251012	MUHAMMAD HISYAM	B+
14	22328251013	Ida Nurjelita Sani	B+
15	22328251014	Sandra Desfa Jayanti	A-
16	22328251015	ELSIMA NAINGGOLAN	B+
17	22328251016	Chesa Defista	A-
18	22328251017	Ade Kurnia Putri Tanjung	B+
19	22328251018	Suryani S Situmorang	B+
20	22328251019	Muhammad Fikri M Basri	B

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

Yogyakarta ,

Dosen/Koord. Team Penguji :

(.....)



MINISTRY OF RESEARCH, TECHNOLOGY, AND HIGHER EDUCATION
UNIVERSITAS NEGERI YOGYAKARTA
 FACULTY MATHEMATICS AND NATURALE SCIENCE
 MASTER OF EDUCATION IN CHEMISTRY
Colombo Street, No. 1, Karangmalang Campus, Yogyakarta 55281
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MODUL HANDBOOK

COURSE	CODE	COURSE GROUP	CREDIT UNIT	SEM.	DEVELOPMENT DATE
Inorganic Structural Chemistry	MPK8206	Master of Education in Chemistry	2	1	Jan 2, 2019
Authorization	Course Lecturer Prof. Dr. Hari Sutrisno, M.Si.			Head of Study Program Prof. Dr. Hari Sutrisno, M.Si.	
Programme Learning Outcomes (PLO) – Study Program					
Learning Outcomes	Attitude and Value	PLO1. 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. PLO2. 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 PLO3. Upholding the rule of law and having the spirit to prioritize the interests of the nation and the wider community. PLO4. Enabling to internalize the entrepreneurial spirit, academic values and norms that are properly related to honesty, ethics, attribution, copyright, confidentiality and ownership of data			
	Work Ability	PLO5. 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. PLO6. 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. PLO7. Publishing the results of research in the field of chemistry education in scientific journals nationally and internationally accredited. PLO8. Increasing the capacity of independent learning. PLO9. Having structured learning skills for self-development, science, and career sustainability. PLO10. Enabling to think critically, make informed decisions, and communicate effectively, academically, and ethically.			

	Knowledge Assignment	<p>PLO11. Documenting, storing, auditing, securing, and rediscovering research data for further research purposes.</p> <p>PLO12. Identifying the scientific field of the research object and positioning it into a research map.</p> <p>PLO13. Carrying out chemistry education research based on research maps, with an inter- or multi- disciplinary approach, independently or in collaboration with other institutions.</p>
	Authority and Responsibility	<p>PLO14. Developing and maintaining networks with colleagues, including in the broader research institutions and communities.</p> <p>PLO15. 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>
	Course Outcomes	
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
Short Description of Course	<p>Inorganic Structurale Chemistry courses are courses for students of Master 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.</p>	

Learning Materials / Subjects	Subjects include: <ol style="list-style-type: none"> 1. Description of chemical structure 2. Theory of repulsion of valence electron pairs 3. Symmetry and molecular groups 4. Chemical bonds and lattice energy 5. Symmetry and crystal groups 6. Molecular structure 1: compounds of the main group elements 7. Molecular structure 2: transition metal compounds 8. Structure of nonmetal elements 9. X-ray diffractometer 10. Determination of simple crystal structure 	
References	Primary	
	<p>Atkins, P., Overton, T., Rourke, J., Weller, M. & Armstrong, F. (2010). <i>Shriver and Atkins' Inorganic Chemistry, 5th Edition</i> Great Britain : Oxford University Press</p> <p>Huheey, J. E., Keiter, E. A. & Keiter, R. L. (1993). <i>Inorganic Chemistry: Principle of Structure and Reactivity</i>. New York : Harper Collins College Publisher.</p> <p>Li, W. K., Cheung, Y. S., Mak, K. K. W. & Mak, T. C. W. (2013). <i>Problems In Structural Inorganic Chemistry</i>. Hong Kong: Oxford Press</p> <p>Li, W. K., Zhou, G. D. & Wai Mak, T. C. (2008). <i>Advanced Structural Inorganic Chemistry</i>. New York: Oxford Science Publication</p> <p>Miessler, G. L. & Tarr, D. A. (2009). <i>Inorganic Chemistry, third edition</i>. New Delhi: Pearson Education</p> <p>Muller, U., (2006). <i>Inorganic Structural Chemistry, second edition</i>. West Sussex: John Wiley & Sons Ltd</p> <p>Pfennig, B.W. (2015). <i>Principles of inorganic chemistry</i>. New Jersey: John Wiley & Sons, Inc.</p> <p>Strohfeltd, K. (2015). <i>Essentials of Inorganic Chemistry</i>. John Wiley & Sons</p>	
	Support	
	<p>S1. West, A. R. (2014). <i>Solid State Chemistry and Its Applications. second edition</i>. Singapore: John Wiley & Sons Ltd.</p> <p>S2. Journal Inorganic Chemistry</p>	
Instructional Media	Software	Hardware
	File dan Powerpoint	Laptop, Board and stationery Projector
Team-Teaching	<ul style="list-style-type: none"> - Prof. Dr. Hari Sutrisno - Dr. Dyah Purwaningsih 	
Prerequisite Course	-	

ASSESSMENT WEIGHT

No	Course Outcomes	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%
Total				100%

PLO AND CO MAPPING

		Learning Outcomes (PLO)														
		Attitude and Value				Work Ability						Knowledge Assignment			Authority and Responsibility	
		PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14	PLO15
Course : KIM8207 - Inorganic Structural Chemistry																
Course Outcomes	CO1	√		√	√											
	CO2					√	√									
	CO3		√							√						
	CO4				√						√			√		
	CO5		√					√			√		√			
	CO6							√			√		√			
	CO7											√				√

Head of Study Program

Prof. Dr. Eli Roaheti, M.Si

Yogyakarta, August 29, 2022
Lecturer

Prof. Dr. Hari Sutrisno, M.Si