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/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 Monodisiplincr 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 diserahi 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

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	FMI8303	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**		

Dekan,

Prof. Dr. Ariswan, M.Si.
NIP. 195909141988031003

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 S2 Pilihan
Jumlah Peserta : 5

Nama Dosen : 1. Dr. Dyah Purwaningsih, S.Si., M.Si.
2. Prof. Dr. Hari Sutrisno, M.Si.
Mata Kuliah : MPK8218 - Topik Spesial dalam Ilmu Kimia

No.	No. Mhs.	Nama Mahasiswa	Tanggal															Ket.
			30/08	06/09	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	22328251024	Muhammad Iqbal Fajri	H	H	H	TH	TH	H	H	TH	H	H	H	H	H	H	H	H	
2	22328251027	Ayar Sakinah	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
3	22328251031	Nur Fauziah	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
4	22328251032	Hasrilia Beskara	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
5	22328254006	Nurhaliza Adisha	H	H	H	S	H	H	H	H	H	H	H	H	H	H	H	H	
Jumlah Mahasiswa yang hadir			**7**	**5**	**5**	**3**	**4**	**5**	**5**	**4**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	
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 S2 Pilihan
Nama Dosen : 1. Dr. Dyah Purwaningsih, S.Si., M.Si.
2. Prof. Dr. Hari Sutrisno, M.Si.
Mata Kuliah : MPK8218 - Topik Spesial dalam Ilmu Kimia

No.	Pertemuan Ke	Hari/Tanggal	Materi Yang diajarkan	Jam		Jml Mhsw	Paraf Dosen	Paraf Mhsw	Keterangan
				Masuk	Keluar				
1	1	Selasa, 30 Agustus 2022	Pendahuluan	15:40:00	17:20:00	7			
2	2	Selasa, 6 September 2022	Fenomena Kation dalam pelarut air	15:40:00	17:20:00	5			
3	3	Selasa, 13 September 2022	Polikondensasi Spesies kation logam	15:40:00	17:20:00	5			
4	4	Selasa, 20 September 2022	Teori Asam basa	15:40:00	17:20:00	3			
5	5	Selasa, 27 September 2022	Teori Orbital Molekul	15:40:00	17:20:00	4			
6	6	Selasa, 4 Oktober 2022	Reaksi Kimia dan Reaksi Redoks	07:30:00	09:10:00	5			
7	7	Selasa, 11 Oktober 2022	Reaksi Redoks Lanjutan	15:40:00	17:20:00	5			
8	8	Selasa, 18 Oktober 2022	UTS	15:40:00	17:20:00	4			
9	9	Selasa, 25 Oktober 2022	Development Cathode Material for Lithium Ion-Batteries	15:40:00	17:20:00	5			
10	10	Selasa, 1 Nopember 2022	Penugasan dan diskusi material utk penugasan	15:40:00	17:20:00	5			
11	11	Selasa, 8 Nopember 2022	Aerogel	15:40:00	17:20:00	5			
12	12	Selasa, 15 Nopember 2022	Polikloropropena (Neoprena)	15:40:00	17:20:00	5			
13	13	Selasa, 22 Nopember 2022	Baterai Litium	15:40:00	17:20:00	5			
14	14	Selasa, 29 Nopember 2022	Biodegradasi Limbah Plastik oleh Mikroorganisme	15:40:00	17:20:00	5			
15	15	Selasa, 6 Desember 2022	Biodegradasi Limbah Plastik oleh Mikroorganisme	15:40:00	17:20:00	5			
16	16	Selasa, 13 Desember 2022	UAS	15:40:00	17:20:00	5			

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 : 5
KELAS : S2Pil

NO	NIM	NAMA	NILAI [HURUF]
1	22328251024	Muhammad Iqbal Fajri	E
2	22328251027	Ayar Sakinah	A-
3	22328251031	Nur Fauziah	A
4	22328251032	Hasrilia Beskara	A
5	22328254006	Nurhaliza Adisha	A-

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
Tel. +62274-550836 (front office), Fax. +62274-520326
Email: pps@uny.ac.id, humas_pps@uny.ac.id

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**				**Head of Study Program**
	Prof. Dr. Hari Sutrisno, M.Si.				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	PLO11. Documenting, storing, auditing, securing, and rediscovering research data for further research purposes. PLO12. Identifying the scientific field of the research object and positioning it into a research map. PLO13. Carrying out chemistry education research based on research maps, with an inter- or multi- disciplinary approach, independently or in collaboration with other institutions.
	Authority and Responsibility	PLO14. Developing and maintaining networks with colleagues, including in the broader research institutions and communities. 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.
	Course Outcames	
Course Outcames	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	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.	

Learning Materials / Subjects	Subjects include: 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**	
	Atkins, P., Overton, T., Rourke, J., Weller, M. & Armstrong, F. (2010). *Shriver and Atkins' Inorganic Chemistry, 5th Edition* Great Britain : Oxford University Press Huheey, J. E., Keiter, E. A. & Keiter, R. L. (1993). *Inorganic Chemistry: Principle of Structure and Reactivity*. New York : Harper Collins College Publisher. Li, W. K., Cheung, Y. S., Mak, K. K. W. & Mak, T. C. W. (2013). *Problems In Structural Inorganic Chemistry*. Hong Kong: Oxford Press Li, W. K., Zhou, G. D. & Wai Mak, T. C. (2008). *Advanced Structural Inorganic Chemistry*. New York: Oxford Science Publication Miessler, G. L. & Tarr, D. A. (2009). *Inorganic Chemistry, third edition.* New Delhi: Pearson Education Muller, U., (2006). *Inorganic Structural Chemistry, second edition*. West Sussex: John Wiley & Sons Ltd Pfennig, B.W. (2015). *Principles of inorganic chemistry*. New Jersey: John Wiley & Sons, Inc. Strohfeldt, K. (2015). *Essentials of Inorganic Chemistry*. John Wiley & Sons	
	Support	
	S1. West, A. R. (2014). *Solid State Chemistry and Its Applications. second edition.* Singapore: John Wiley & Sons Ltd. S2. Journal Inorganic Chemistry	
Instructional Media	**Software**	**Hardware**
	File dan Powerpoint	Laptop, Board and stationery Projector
Team-Teaching	- Prof. Dr. Hari Sutrisno - Dr. Dyah Purwaningsih	
Prerequisite Course	-	

ASSESSMENT WEIGHT

No	Course Outcames	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 Sructural Chemistry																
Course Outcames	CO1	√		√	√											
	CO2					√	√									
	CO3		√							√						
	CO4				V							√			√	
	CO5		√					√			√		√			
	CO6								√			√		√		
	CO7												√			√

Head of Study Program

Prof. Dr. Eli Roaheti, M.Si

Yogyakarta, August 29, 2022
Lecturer

Prof. Dr. Hari Sutrisno, M.Si