



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/27/UN.34.13/HK.03/2023

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

DEKAN FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

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

Mengingat :

1. Undang-undang Nomor 1 Tahun 2004 tentang Perbendaharaan Negara (Lembaran Negara Republik Indonesia Tahun 2004 Nomor 5, Tambahan Lembaran Negara Republik Indonesia Nomor 4355);
2. Undang-undang Nomor 12 Tahun 2012 tentang Pendidikan Tinggi (Lembaran Negara Republik Indonesia Tahun 2012 Nomor 158, Tambahan Lembaran Negara Republik Indonesia Nomor 5336);
3. Peraturan Pemerintah Nomor 4 Tahun 2014 tentang Penyelenggaraan Pendidikan Tinggi dan Pengelolaan Perguruan Tinggi (Lembaran Negara Tahun 2014 Nomor 16, Tambahan Lembaran Negara Republik Indonesia Nomor 5500);
4. Peraturan Pemerintah Nomor 35 Tahun 2022 tentang Perguruan Tinggi Badan Hukum Universitas Negeri Yogyakarta (Lembaran Negara Republik Indonesia Tahun 2022 Nomor 207, Tambahan Lembaran Negara Republik Indonesia Nomor 6823);
5. Keputusan Menteri Pendidikan dan Kebudayaan Nomor 6723/MPK/RHS/KP/2021 tentang Pengangkatan Rektor Universitas Negeri Yogyakarta Periode Tahun 2021-2025 ;
6. Peraturan Rektor Universitas Negeri Yogyakarta Nomor 15 Tahun 2022 tentang Organisasi dan Tata Kerja Universitas Negeri Yogyakarta ;

MEMUTUSKAN :

Menetapkan : KEPUTUSAN DEKAN TENTANG TUGAS MENGAJAR DAN MENGUJI DOSEN SEMESTER GENAP 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 Genap 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 RKA-UKPK UNY Tahun 2023;
- KEEMPAT : Keputusan Rektor ini berlaku pada tanggal 30 Januari 2023 sampai dengan 8 Juni 2023

TEMBUSAN Keputusan Dekan ini disampaikan kepada :

1. Rektor UNY;
2. Para Wakil Dekan di FMIPA UNY;
3. Para Koorprodi di FMIPA UNY;
4. Kepala Layanan Administrasi di FMIPA;
5. Sekretaris Layanan Administrasi di FMIPA UNY;
6. Bendahara Gaji FMIPA UNY;
7. Yang bersangkutan untuk diketahui dan dilaksanakan;

Ditetapkan di Yogyakarta
Pada tanggal, 30 Januari 2023

DEKAN FAKULTAS MATEMATIKA DAN ILMU
PENGETAHUAN ALAM



Prof. Dr. Ariswan, M.Si
NIP. 19590914 198803 1 0038

Lampiran SK Dekan FMIPA UNY

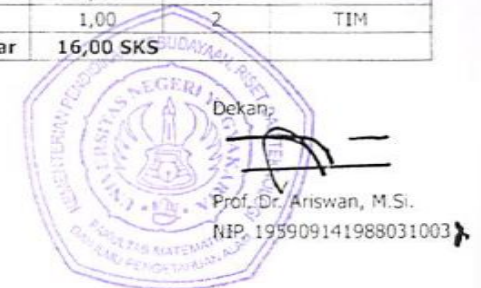
Nomor : B/27/UN34.13/HK.03/2023

Tanggal : 30 Januari 2023

DAFTAR TUGAS MENGAJAR DAN MENGUJI DOSEN
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM - UNIVERSITAS NEGERI YOGYAKARTA
SEMESTER GENAP 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	MPK6344	Kimia Anorganik Non Logam	3	2	PEND. KIMIA - S1	A	Teori	2	1,00	45	TIM
2	KIM6235	Teknologi Nanokimia	2	6	KIMIA - S1	PIL	Teori	2	2,00	33	
3	MPK6344	Kimia Anorganik Non Logam	3	2	PEND. KIMIA - S1	C	Teori	2	1,00	43	TIM
4	MPK6344	Kimia Anorganik Non Logam	3	2	PEND. KIMIA - S1	A2	Praktik	1	1,00	16	
5	MPK8206	Kimia Struktur Anorganik	2	1	PENDIDIKAN KIMIA - S2	S2_C	Teori	2	2,00	16	
6	FM18303	Metodologi Penelitian Pendidikan	3	1	PENDIDIKAN KIMIA - S2	S2_C	Teori	3	3,00	16	
7	MPK8206	Kimia Struktur Anorganik	2	1	PENDIDIKAN KIMIA - S2	RPL	Teori	2	2,00	8	
8	FM18303	Metodologi Penelitian Pendidikan	3	1	PENDIDIKAN KIMIA - S2	RPL	Teori	3	3,00	14	
9	MPK9208	Topik Khusus dalam Kimia Anorganik dan Kimia Fisik	2	1	PENDIDIKAN KIMIA - S3	S3_PK	Teori	2	1,00	2	TIM
Jumlah Beban Mengajar									16,00 SKS		



Appendix:

MCE 2.2.2.c

Example of a Module Handbook

		UNIVERSITAS NEGERI YOGYAKARTA GRADUATE SCHOOL MASTER OF EDUCATION IN CHEMISTRY			
MODULE HANDBOOK					
COURSE	CODE	COURSE GROUP	CREDIT UNIT (sks)	SEM.	DEVELOPMENT DATE
Inorganic Structural Chemistry	KIM8207	Master of Education in Chemistry	2	1	May 29, 2019
Authorization	Course Lecturer Prof. Dr. Hari Sutrisno, M.Si.			Head of Study Program Prof. Dr. Hari Sutrisno, M.Si.	
Learning Outcomes (LO) – Study Program					
Learning Outcomes	Attitude and Value	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			

	Work Ability	<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>
	Knowledge Assignment	<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>
	Authority and Responsibility	<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>
	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	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: <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. Atom size size 6. Symmetry and crystal groups 7. Molecular structure 1: compounds of the main group elements 8. Molecular structure 2: transition metal compounds 9. Structure of nonmetal elements 10. X-ray diffractometer 11. Determination of simple crystal structure 	
References	Primary	
	P1. Muller, U., (2006). <i>Inorganic Structural Chemistry, second edition</i> . West Sussex: John Wiley & Sons Ltd	
	P2. 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.	
	P3. Li, W. K., Zhou, G. D. & Wai Mak, T. C. (2008). <i>Advanced Structural Inorganic Chemistry</i> . New York: Oxford Science Publication	
P4. Miessler, G. L. & Tarr, D. A. (2009). <i>Inorganic Chemistry, third edition</i> . New Delhi: Pearson Education .		
Support		
S1. West, A. R. (1989). <i>Solid State Chemistry and Its Applications</i> . Singapore: John Wiley & Sons Ltd.		
S2. Journal Inorganic Chemistry		
Instructional Media	Software	Hardware
	File dan Powerpoint	Laptop Board and stationery Projector
Team-Teaching	-	
Prerequisite Course	-	

LEARNING ACTIVITIES

Week	Sub-CO	Indicator	Criteria & Form of Assessment	Learning Method (Estimated Time)	Learning Materials (Library)	Quality of Ass. (%)
1	Describe chemical structure and symmetry	1. Students can describe chemical structures 2. Students are able to explain the symmetry of a chemical compound	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	1. Students are able to explain the definition of atomic size effects 2. Students can explain the factors that influence the size effect of an atom	Assessment Criteria: logic and meaningfulness Form of assessment: Observation with the class Observation rubric	<i>Direct Instruction</i> 2 x 50 minute	P1, P3, P4	2%
8	Midterm Exam					40%
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	Assessment Criteria: logic and meaningfulness Form of assessment: Observation with the class Observation rubric	Direct Instruction Individual task 6 x 50 minute	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	Assessment Criteria: logic and meaningfulness Form of assessment: Observation with the class Observation rubric	Direct Instruction Individual task 4 x 50 minute	P1, P3	2%
13	Analyze the structure of nonmetal elements	1. Students are able to analyze chemical structures not metals 2. Students are able to analyze group theory and lattice found in non-metal compounds	Assessment Criteria: logic and meaningfulness Form of assessment: Observation with the class Observation rubric	Direct Instruction Individual task 4x 50 minute	P1, P3, S1	4%
14-15	Analyze structures like diamonds	1. Students are able to analyze chemical structures not metals 2. Students are able to analyze group theory and lattice found in non-metal compounds	Assessment Criteria: logic and meaningfulness Form of assessment: Observation with the class Observation rubric	Direct Instruction Individual task 4 x 50 minute	P1, S1	4%
16	Final Exams					40%

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%

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
Course : KIM8207 - Inorganic Structural Chemistry																
Course Outcomes	CO1	√		√	√											
	CO2					√	√									
	CO3		√							√						
	CO4				√							√			√	
	CO5		√						√		√		√			
	CO6								√			√		√		
	CO7												√			√

Knowing,
Head of Study Program

Yogyakarta, May 29, 2019
Lecturer

Prof. Dr. Hari Sutrisno, M.Si
NIP 196704071992031002

Prof. Dr. Hari Sutrisno, M.Si
NIP 196704071992031002

ANALYSIS OF ACHIEVEMENT CO / LO

Study Program : Master of Education in Chemistry
Course : Inorganic Structural Chemistry
Semester : 1
Prerequisite Course : -
Course Lecturer : Prof. Dr. Hari Sutrisno, M.Si

Code: KIM8207

Credit Unit (sks) : 2 (Teory)

A. TABLE OF OF ACHIEVEMENT CO

Task/ Exam	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6	CO 7
Structured Tasks 1					80	75	
Structured Tasks 2				84			85
Independent task 1			80				
Independent task 2					80		
Skills			80				
Attitude	85	86					
Midterm Exam				72			
Final Exam				78	80	80	
AVERAGE	85	86	80	76	80	77,5	85

B. TABLE OF OF ACHIEVEMENT LO

	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6	CO 7	AVERAGE
LO 1	85							85
LO 2					82			82
LO 3	85							85
LO 4	85			76				78
LO 5			82					82
LO 6			86					86
LO 7					75	80		82,5
LO 8		76				80		78
LO 9		80	78					79
LO 10					80			80
LO 11				75		80		82,5
LO 12					75		76	75,5
LO 13						76		76
LO 14				80				80
LO 15							80	80
AVERAGE								80.77

FORM PENILAIAN

PROGRAM STUDI : PENDIDIKAN KIMIA - S2
MATAKULIAH : MPK8206 - Kimia Struktur Anorganik
PENGAMPU : Prof. Dr. Hari Sutrisno M.Si.
JUMLAH PESERTA : 16
KELAS : S2_C
SEMESTER Genap TAHUN 2022

NO	NIM	NAMA	NILAI [HURUF]
1	22328251034	Rasamimanana JoronaValona	A-
2	22328251035	Mizzan Ayubi	B+
3	22328251036	Alessandro Jeremi Manarisip	B+
4	22328251037	Dwiani Ratna Sari	A-
5	22328251038	Mikelin Ardania	B+
6	22328251039	Rabiatul Adawiyah	B+
7	22328251040	Syaza Syahana	A-
8	22328251041	Meliana Fajri Nurkhasanah	A-
9	22328251042	Muhammad Akbar Chaniago	A-
10	22328251043	Hana Fadhilah Retiyanto	B+
11	22328251044	Habibil Mazid	A-
12	22328251045	Vegha Dwi Arthamena	B+
13	22328251046	Sarmila Eka Putri	B+
14	22328251047	Lisya Asmiati	B+
15	22328251048	Elma Pujiana	B+
16	22328251049	Muhammad Habib Ash Shiddiqi	B+

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

Yogyakarta ,

Dosen/Koord. Team Penguji :

(.....)