STUDENT HANDBOOK

CURRICULUM 2022

PROFILE

COURSE DISTRIBUTION

STUDY PROGRAM





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DEPARTMENT CHEMISTRY EDUCATION
FACULTY OF MATHEMATICS AND
NATURAL SCIENCE
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FOREWORD

All praise and gratitude we offer to the Almighty God, for it is only by His grace and abundant mercy that this Student Handbook for the Chemistry Education Study Program has been successfully compiled and printed.

This handbook is designed to introduce the Bachelor of Chemistry Education Study Program, along with the department leadership and all faculty members of the Department of Chemistry Education, to students, the academic community, and general readers of this book. This handbook contains the vision, mission, and strategic plans for the implementation of the Bachelor of Chemistry Education Study Program, the organizational structure and responsibilities of the leadership, as well as essential information about the faculty members in the Department of Chemistry Education.

Although it is compiled in a straightforward manner, we hope this book provides significant benefits to all of us.

Yogyakarta, 7 July 2025

Drafting team

UNY LOGOS

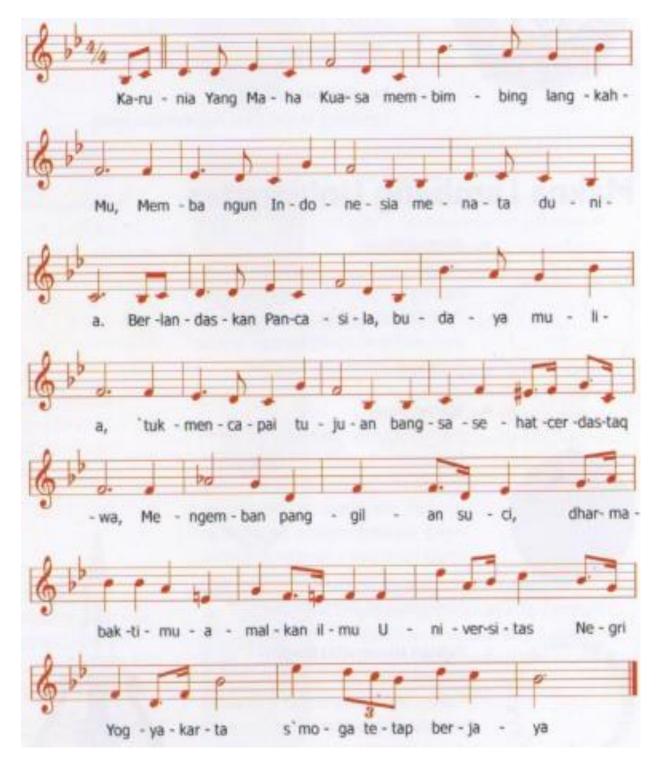


Information:

The logos is shaped like a pentagonal lotus flower, the base color is blue. Written by Universitas Negeri Yogyakarta which is made circular with UNY calligraphy writing, the image of the wings of the Garuda Bird is yellow, and in the middle there is an image of a monument, with a mustaka in the shape of fire split into three, stairs, chest, body, and the foot of the monument.

Yogyakarta State University (UNY) Hymn

L, S: Heni Kusumawati



MARS YOGYAKARTA STATE UNIVERSITY (UNY)

L,S: Agus Untung Yulianta



A. HISTORY OF CHEMISTRY EDUCATION DEPARTMENT

The Department of Chemistry Education was originally a B-1 Chemistry course which opened on October 22, 1956. In 1961, B-1 chemistry was changed to the Department of Chemistry FKIP / B Gadjah Mada University. With the establishment of IKIP Negeri Yogyakarta on May 21, 1964, the Chemistry Department of FKIP/B UGM joined IKIP Yogyakarta under the Faculty of Teacher Training in Exact Sciences (FKIE) with the name Chemistry Department. Since 1980, FKIE changed to FPMIPA (Faculty of Mathematics and Natural Sciences Education), and the Department of Chemistry changed to the Department of Chemistry Education (Jurdik Kimia) which manages the Chemistry Education Study Program at the undergraduate and D3 levels. In 1997, Jurdik Kimia was given an expanded mandate to open an undergraduate Chemistry Study Program. With the change in the status of IKIP Negeri Yogyakarta to Yogyakarta State University (UNY) in 1999, FPMIPA became FMIPA, and Jurdik Kimia managed the undergraduate Chemistry Education Study Program and the undergraduate Chemistry Study Program. Thus, for more than 50 years, this study program has played a role in improving the quality of chemistry education in Indonesia.

The Department of Chemistry Education has two study programs, namely the Chemistry Study Program and the Chemistry Education Study Program, and has three laboratories, namely the Chemistry Education Laboratory, Computer Laboratory, Chemistry Laboratory (including Basic Chemistry Laboratory, Organic Chemistry and Biochemistry, Physical Chemistry Laboratory, Analytical Chemistry Laboratory, Inorganic Chemistry Laboratory, and Research Laboratory). The complateness of the laboratory is also supported by a fairly complete book collection room (library) and has an internet network.

Starting in the 2003/2004 academic year, the Department of Chemistry Education used the Competency Based Curriculum (Curriculum 2002) which was prepared based on the vision, mission, goals and objectives of the study program and had taken into account the needs of stakeholders, considered input from lecturers, students, alumni, graduate users, took into account the evaluation of the implementation of the previous curriculum, and referred to Decree No. 232/U/2000 and Decree No. 045/U/2002. Starting in the 2009/2010 academic year, the Department of Chemistry Education implemented the 2009 Curriculum which was more supportive towards UNY's internationalization program. Starting in the 2010/2011 academic year, the curriculum for the International Class of the Chemistry Education Study Program has also been implemented. The 2014 KKNI-based curriculum has been implemented starting in the 2014/2015 academic year. Currently, a review and improvement process has been carried out to compile the 2019 curriculum which is still based on KKNI with improvements to accommodate world changes with the enactment of the AEC and technological developments in the era of technological disruption.

The infrastructure of the Chemistry Education Department is very good. There are enough lecture rooms, laboratories, libraries, department management rooms, lecturer rooms, seminar rooms, thesis examination rooms, and student management rooms. The Chemistry Education Department also has adequate lecture and administrative support equipment, such as OHP, LCD, notebooks, computers, audio-visual equipment, workshop equipment, and photocopiers. Computers are available in sufficient quantity and quality (80 computers in 2 rooms) so that each student can carry out practicum with 1 computer. The computer laboratory is equipped with an internet network. Books in the department library

are available in sufficient number, titles, and editions. The books come from alumni donations, DUE-Like project, JICA, and Competition Grant Program (PHK) A2, and PHKI batch II.

B. CHEMISTRY EDUCATION UNDERGRADUATE STUDY PROGRAMS

1. Vision

The vision of the Chemical Education Study Program is as follows: "By 2025, the Chemical Education Study Program will be established as a quality-based and leading program in Southeast Asia in the development of learning and research, aimed at producing graduates in Chemical Education who possess pedagogical, professional, personal, and social competencies, are globally competitive, and embody the characteristics of piety, independence, and intellectuality."

2. Mission

In order to achieve its future vision, the Chemistry Education Study Program carries out the following missions:

- 1. Conducting education to produce graduates in Chemistry Education who process pedagogical, professional, personal, and social competencies, and are capable of contributing in the global era.
- 2. Advancing chemistry education through research and innovation based on character education aligned with local wisdom and the life context of learners, and disseminating research outcomes both nationally and internationally.
- 3. Engaging in community service by socializing the results of research and innovations in the field of chemistry education to stakeholders.
- 4. Establishing mutually beneficial collaborations with domestic and international partners to support the progress of chemistry and chemistry education.
- 5. Fostering the academic community to create a campus society that is devout, independent, intellectual, and possesses a deep love for the nation, state, and homeland.

3. Objectives of Chemistry Education Study Program

The The objectives of the S-1 Chemistry Education study program at FMIPA UNY are as follows.

- 1. Producing graduates who are professional, superior, able to play a role in the global era based on the value of piety, entrepreneurial spirit, creative, and innovative.
- 2. Producing research that is superior, creative, innovative, and beneficial to the world of education and society.
- 3. Producing community service that is effective and effective for the community and the industrial world.
- 4. Producing mutually beneficial cooperation at the national, regional and international levels.
- 5. Realizing a devoted, independent, and intellectual campus community and having a love for the nation, state, and homeland.

4. Scientific Vision of the Undergraduate Chemistry Education Program

The Bachelor of Chemical Education Study Program has a scientific vision "Organizing superior education, oriented towards science relevance, and technology-based through globally competitive chemical education research" which is in accordance with the institutional vision. The following is an explanation of the scientific vision.

- 1. This scientific vision is in accordance with the institutional vision (FMIPA & UNY) with the use of meaningful keywords that emphasize the implementation of superior education through learning innovation and strengthening sustainable and globally competitive chemistry education research to increase the relevance of chemistry learning.
- 2. Strengthening chemical education research oriented towards science relevance and supporting sustainable education goals characterizes the excellence of the study program in producing graduates as prospective chemical educators who have independent chemical education research competencies.
- 3. The formulation of the scientific vision is very clear, beginning with the word 'organize', so it is easy to understand its meaning. The scientific vision will be implemented through the organization of education, research, and community service activities.
- 4. The scientific vision of PS is very visionary which emphasizes the use of technology to produce education, research, and service / benefits provided to the community to meet the multidimensional relevance of science (individualsocietal-vocational- & present-future) in order to produce creative and innovative graduates so that they can compete globally and support Responsible Citizenship.
- 5. The scientific vision is very realistic because it can be realized with the support of an adequate number of lecturers who are competent in their respective fields and actively carry out tridharma activities of higher education and publish works in various forms, support for adequate facilities and infrastructure both within the PS and outside the PS, support for collaboration built by lecturers and students, as well as funds available in internal faculties & universities and those obtained through funding competencies outside the faculties & universities.

5. Graduate Profile

The desired profile of chemistry education graduates is as follows.

Main Profile

- **a.** Chemistry Educator. In this field, alumni of the Chemistry Education Study Program have been equipped to be able to become educators both in formal institutions of primary and secondary education, higher education, as well as informal and non-formal institutions, including as chemistry curriculum developers and education management at the school level.
- **b.** Chemistry Education Researcher. In this field, alumni of the Chemistry Education Study Program FMIPA UNY have been equipped to be able to become researchers in the field of chemical education with the distinctiveness of chemical education that is different from educational and or chemical research by applying various educational research methods in supporting educational programs for sustainable development and increasing the relevance of chemical education to society.

Additional Profile

a. Entrepreneur. In this field, alumni of the Chemical Education Study Program are equipped with the ability to develop themselves so that they can take careers not only as educators or researchers in the field of chemical education but entrepreneurship, especially in the field of chemical education or the chemical field.

- **b. Education Manager.** In this field, alumni of the Chemistry Education Study Program are equipped with educational management concepts and skills to design learning programs in schools and educational activities in the community, laboratory management, and scientific extracurricular management in schools.
- **c.** Chemistry Research Assistant. In this field, alumni of the Chemistry Education Study Program are equipped with laboratory skills, designing experiments and carrying out simple chemical research to be able to act as assistants for chemical or similar researchers.

6. Graduate Learning Outcomes (GLO)

The learning outcomes of graduates of the undergraduate chemistry education study program are derived from the established profile and refer to the GLO domain according to KKNI. GLO are formulated in a concise and brief manner in accordance with the provisions of ASIIN and AUN-QA international accreditation and certification agencies.

Table 1. The Learning Outcomes of Graduates of the Undergraduate Chemistry Education

Domain	Learning Program Outcomes		
Attitude Demonstrating religious zeal, moral integrity, ethical princ			
	Indonesian character in communal, societal, and national life.		
	Demonstrating independence and accountability in both individual and		
	collaborative work in daily life and within the community.		
Knowledge	Applying the concepts, principles, laws, calculations, and theories of		
	chemistry, education, and chemical education, which are continually		
	updated as part of lifelong learning, to solve problems in careers, daily life,		
	and societal life, based on religious values and the philosophy of the state.		
	Integrating concepts of chemistry, laboratory management and safety,		
	pedagogical knowledge of chemistry, curriculum, strategies, learning		
	resources, media, evaluation, classroom management, and ICT that support		
	religious values and philosophical principles in chemistry learning		
	activities.		
	Understanding the methodology of chemistry education research and the		
	characteristics of its research procedures in supporting educational		
	programs for sustainable development and enhancing the relevance of		
	chemistry education to society, as well as academic integrity in research		
	and scholarly work.		
	Understanding the concepts of educational program management and		
	entrepreneurship in general, as well as within the fields of chemistry and		
	chemical education.		
General Skills	Able to adapt critical and creative thinking skills, prevent plagiarism, and		
	argue scientifically in addressing issues within career, daily life, and		
	societal contexts.		
	Applying collaborative skills to build professional networks, self-		
	development, and to resolve issues in career, daily life, and community		
	living.		

Specialized	Planning, managing, and evaluating chemistry education in schools in			
Skills	accordance with the characteristics of the subject matter (content			
	knowledge) and the characteristics of learners, teaching approaches,			
	learning resources, instructional media (pedagogical knowledge), as well			
	as relevant information and communication technology (technological			
	knowledge) in an innovative and adaptive manner.			
	Planning, managing, and evaluating laboratory activities by adhering to the			
	principles of Occupational Health and Safety (OHS) and environmental			
	issues in an innovative and adaptive manner.			
	Identifying issues and determining alternative solutions based on the			
	and research findings, designing, implementing them in chemistry a			
	chemistry education research, and publishing them in accordance with			
academic standards and integrity, supported by the application				
	competencies.			
	Capable of communicating scientifically, both orally and in writing, to			
	convey ideas or concepts in scientific forums using Indonesian and			
	English, in support of sustainable development and enhancing the			
	relevance of chemistry education with society.			

7. Scientific Publication Media

UNY's Department of Chemistry Education manages scientific publication media as follows:

Jurnal Riset Pembelajaran	Jurnal Riset Pembelajaran Kimia		
Online ISSN	3032-6885		
Editor	Antuni Wiyarsi		
Publisher	Universitas Negeri Yogyakarta		
Frequency Two Issues per Year	February and August		
Focus & Scope	Universitas Negeri Yogyakarta		

	community.	
Link	https://journal.student.uny.ac.id/jrpk/index	

8. Curriculum

a. Course Characteristics

The MBKM (Merdeka Belajar-Kampus Merdeka) Curriculum is developed through a phased process involving both internal and external stakeholders, in accordance with the Rector's Regulation No. 7 of 2020 concerning the Guidelines for the Implementation of the Merdeka Belajar-Kampus Merdeka Curriculum for Undergraduate (PS) and Applied Undergraduate Programs at Yogyakarta State University. The detailed curriculum for the Undergraduate Program in Chemical Education includes aspects such as the program's identity; evaluation of the implementation of the previous curriculum; the foundation for curriculum development; the program's vision, mission, and objectives; graduate profiles; graduate learning outcomes (CPL); fields of study; course lists; and learning tools.

The section of the Undergraduate Program in Chemical Education curriculum that grants students the right to study outside their program, in line with the Merdeka Belajar-Kampus Merdeka (MBKM) policy, can be found in the explanation of MBKM implementation. Students are given the opportunity to undertake learning outside their program for 1 semester (equivalent to 20 credits) within the same university, or up to 2 semesters (equivalent to 40 credits) in a different program at another university, including learning outside the university.

This aligns with the MBKM policy, which allows students to study outside their program for up to 3 semesters. This program provides students with the opportunity to broaden their perspectives and competencies through contextual experiences in the real world, whether in villages, industries, workplaces, research centers, or communities.

b. Course Structure

Program Course Description

No	Code	Course Name	Course Description
Unive	ersity Course	S	
1	MKU6201	Islam Religious Education*	The course of Islamic Religious Education is mandatory for all Muslim students across all study programs at the university. This course is designed with the purpose of strengthening students' faith and piety towards Allah SWT, as well as cultivating noble character (akhlak) and expanding their intellectual and religious life perspectives. The aim is to shape Muslim students who possess high moral integrity, philosophical thinking, rational and dynamic attitudes, and broad outlooks, while also emphasizing the importance of fostering harmony among fellow human beings, both within the same religious community and with those of other faiths.
	MKU6202	Catholic Religious Education*	Catholic Religious Education aims to assist in the development of students who are faithful and devout to the One Almighty God, possess noble character, think philosophically, act rationally and dynamically, have a broad perspective, and participate in interfaith cooperation for the advancement and utilization of science, technology, and arts for the benefit of humanity and the nation. This course examines: 1) The sacred calling of human life according to the Scriptures; 2) The relationship of humans with themselves, others, and God; 3) Religion and Faith lived in plurality; 4) Jesus Christ; 5) The Church and Faith in society.
	MKU6203	Christian Religious Education*	The Christian Religious Education course aims to assist in the development of students who are faithful and devout to the One Almighty God, possess noble character, think philosophically, act rationally and dynamically, have a broad perspective, and participate in interfaith collaboration in the context of the development and utilization of science, technology, and the arts for the benefit of humanity and the nation. This course examines: 1) Humanity; 2) Christianity; 3) The Church; 4) Christian Faith, Science, and Technology (Faith, Love, and Hope); 5) Humanity

		and Development; 6) Ethical Issues in Social Life;
) (IZI I COO 4	II: 1 D 1: :	7) Selected Topics (thematic selected issues).
MKU6204	Hindu Religious Education*	The course in Hindu Religious Education aims to foster students who are faithful and devout to the One Almighty God, possess noble character, engage in philosophical thinking, exhibit rational and dynamic attitudes, maintain broad perspectives, and actively participate in interfaith cooperation for the development and utilization of science, technology, and the arts for the benefit of humanity and the nation. As an integral part of the national education system, Hindu Religious Education is expected to contribute to addressing moral decadence and other negative effects. The course material encompasses the historical role of Hinduism, the teachings of Brahmavidya, the role of Vedic studies in developing an understanding of sacred scriptures and legal sources, the Hindu concept of humanity, and Hindu ethical teachings.
MKU6205	Buddhist	and Hindu ethical teachings. The Buddhist Religious Education course aims to
	Religious Education*	assist in the development of students who are devout and pious toward the Supreme Deity, possess noble character, think philosophically, act rationally and dynamically, have a broad perspective, and actively participate in interfaith cooperation for the advancement and utilization of science, technology, and the arts for the benefit of humanity and the nation. This course examines: human beings and religion; Buddhism; the sources of Buddhism; the fundamental framework of Buddhist teachings; Dharma; morality (Sila); meditation; Buddhism and science; and case studies.
MKU6206	Confucian Religious Education*	This course is designed to instill Confucian values through the learning process, both inside and outside the classroom. It emphasizes the urgency of Confucian religious education in shaping youth who possess a sense of nationalism and love for their homeland, within the context of Confucian religious values and morals, Pancasila, and the norms of the 1945 Constitution. The course material includes an introduction to the legal foundation of the General Education Course (MKU) on Confucian religion, its vision, mission, and objectives. The content begins

			with an understanding of the objectives of
			Confucian religious education in the context of enlightening the nation's intellectual life, the historical, sociological, and political sources of Confucian religious education; the purpose of human life and the afterlife; the essence and urgency of integrating faith, belief, and devotion in shaping virtuous individuals; as well as the concepts of spiritual values and their implementation in the context of modernity and Indonesian identity.
2	MKU6207	Education	The Civic Education course is compulsory to pass
		Citizenship (Civic)	for all undergraduate and D3 program students, weighing 2 credits. This course equips students with knowledge and basic skills regarding the relationship between citizens and the state, as well as preliminary education to defend the country in order to become a reliable citizen by the nation and country. This course examines: (1) Rights and obligations of citizens (2) Preliminary education for defending the country (3) Indonesian Democracy (4) Human Rights (5) Archipelago insight as Indonesian Geopolitics (6) National Resilience as Indonesian Geostrategy (7) National politics and strategy as the implementation of Indonesian Geostrategy.
3	MKU6208	Pancasila	This course discusses the foundations and objectives of Pancasila Education, Pancasila within the context of the historical struggle of the Indonesian nation, Pancasila as a philosophical system, Pancasila as political ethics and national ideology, Pancasila within the framework of the constitutional system of the Republic of Indonesia, and Pancasila as a paradigm for life in society, nation, and state.
4	MKU6209	Indonesian Language	This course aims to equip students with the competence to use the Indonesian language in academic writing. The topics covered include the historical development of the Indonesian language, its status and functions, Indonesian language writing conventions, paragraph development, types of paragraphs, reasoning within paragraphs, types of academic works, academic writing formats, reference writing, and bibliography compilation.

			Learning activities consist of face-to-face lectures,
			discussions, and structured assignments. Evaluation
			is conducted through written tests and structured
			assignments.
5	MKU6211	English	This course is designed for UNY (State University
		Language	of Yogyakarta) students to develop their academic
			English proficiency, which can be utilized in the
			study of Chemistry and Chemistry Education.
			Students will learn about university-level study
			skills and strategies for reading academic texts in
			English. They will engage with academic texts by
			applying the study strategies they acquire. Through
			this course, it is expected that students will be
			equipped to write and communicate scientifically in
			English, particularly in the context of Chemistry and
	MULICALA	Disital	Chemistry Education.
6	MKU6212	Digital Transformation	Digital Transformation course, weighted 2 credits, discusses the basic material of digital
		Transformation	transformation which includes: understanding
			digital transformation, transformation and
			digitization steps. The next material is the Four
			Pillars of Digital Transformation, Information
			capabilities for Competitive Advantage, Social
			Networks and Enterprise 2.0, Big Data Analysis,
			online busines model. Furthermore, students are
			required to be able to analyze business models
			consisting of Re-engineering of business models,
			Digital Business Models, and Re-engineering of
			business processes. The end of this course will also
			discuss the concept of the Internet of Things. This
			course is taught through lectures, discussions,
			demonstrations, case studies, and assignments.
			Assessment is done through assignments,
			presentations, and exams. The objective of this
			course is for students to understand the important
			role of digitalization in modern life.
7	MKU6213	Creativity,	This course aims to equip students with the
		Innovation and	following: fostering an entrepreneurial spirit and
		Entrepreneurship	character, understanding the concepts of
			entrepreneurship, and developing entrepreneurial
			skills. The scope of the course material includes:
			cultivating an entrepreneurial spirit and character,
L			achievement motivation, creative thinking, the

8	MKU6216	Social Literacy and Humanity	essence of entrepreneurship, business ethics and social responsibility, generating new ideas, production management, finance, marketing and human resources, business opportunities, and business planning. This course examines the existence of humans as cultural beings, civilized beings, individual beings, and social beings. It discusses humans in their
			diversity, equality, and dignity; humans in morality and law; humans with science and technology; and humans with their environment. The objective of the course is to enable students to develop into educated individuals who are critical, sensitive, and wise in understanding human diversity, equality, and dignity, grounded in aesthetic, ethical, and moral values in societal life.
Facul	ty Courses		
9	FMI6201	MIPA Insights & Studies	The course MIPA Insights & Studies is a faculty-level course with a weight of 2 credit hours. This course aims to provide students with an integrated understanding of the scientific disciplines within the Natural Sciences. The curriculum covers theories on how various scientific disciplines are integrated to advance the field of chemistry, including topics such as photosynthesis and food chains, the philosophy of science, logic, principles of decision-making, the scientific method, scientific attitudes and character development, the relationship between mathematics and natural sciences, biology, and the interconnectedness of each system, as well as the role of Natural Sciences in research and technological development. The learning activities are designed using a blended learning approach, combining face-to-face classroom instruction with online learning supported by the Besmart platform. Assessment for this course is based on several aspects, including attitude, participation, structured assignments, mid-semester exams, and final semester exams, each with different weightings.
10	FMI6202	Statistics	The course on Statistics encompasses the following topics: (1) the definition and role of Statistics; (2) methods of data collection and presentation; (3) computation and interpretation of measures of

			central tendency, measures of position, and measures of data dispersion; (4) fundamentals of probability theory; (5) distribution of random variables; (6) sampling theory; (7) parameter estimation; (8) hypothesis testing.
	Education C	7	
11	MDK6201	Education Science	This course delves into the fundamental principles of education and the basic concepts of educational science, along with their applications in educational practice. It encompasses the following areas: educational phenomena, historical perspectives on education, the essence of education and educational science, education as a system, and issues (educational challenges) within the context of educational reform (innovation).
12	MDK6202	Educational Psychology	This course explores the fundamental concepts of human phenomena within the field of education and their applications, encompassing the basic principles of educational psychology, forms of psychological phenomena, individual differences, learning and instruction, assessment of learning outcomes, and the diagnosis of learning difficulties.
13	MDK6203	Education Management	The course on Educational Management is a university-level course and is mandatory for students enrolled in education programs, carrying a weight of 2 credit units (SKS). This course discusses the fundamental concepts, roles, and scope of educational management, followed by an in-depth study on the management of various aspects within the field of educational management. These aspects include: students, curriculum, educational personnel, educational facilities, educational financing, institutional administration, relationships between educational institutions and the community, as well as educational leadership and educational supervision.
14	MDK6204	Sociology and Anthropology of Education	This course explores education as a socio-cultural

			most suitable educational framework for the Indonesian people (anthropos) in achieving the national educational objectives, both in the present and the future.
Learn	ing Process	Skills Course	
15	MPK6201	Chemistry Curriculum and Learning	Through this course, students are expected to comprehend the fundamental concepts of curriculum, the elements/components of curriculum, factors in curriculum development, curriculum development models, the National Education Standards (SNP), the currently applicable national curriculum, the chemistry curriculum in senior high schools (SMA) and its development, the curriculum spectrum and structure of vocational high schools (SMK), as well as to familiarize themselves with international and other countries'
16	MPK6202	Chemistry Learning Model	science/chemistry learning curricula. Through this course, students are expected to comprehend the concepts and types of approaches, methods, techniques, models, components of learning models, as well as the approaches and models that align with the applicable curriculum. Additionally, students should be able to analyze the differences among various learning models and make informed selections for chemistry instruction.
17	MPK6203	Chemistry Media and Learning Resources	In this course, the following topics will be
18	MPK6204	Chemistry Learning Assessment	This course examines various terms commonly used in the assessment of chemistry learning outcomes, the paradigm shift in assessment and authentic assessment, targets (before, during, after), domains, techniques (test and non-test), and instruments for assessing chemistry learning outcomes. It also covers methods for developing assessment

19	PEN6201	Micro Learning	instruments for chemistry learning (both test and non-test), processing assessment results, and an introduction to the analysis of assessment instruments. The micro-teaching course is a practical learning
		C	course conducted in front of peers (peer teaching) in groups (each group consists of 7-10 students), with each group being guided by one or two competent lecturers in their respective fields. In this course, students develop teaching skills for guided teaching practice using specific learning models, reflect on the teaching they have conducted, and engage in at least one teaching practice session in English.
	_	oment Course	
20	MPK6205	Chemistry Education Research Methodology	This course examines the principles of research methodology, encompassing issues, objectives, and benefits of educational research, types of educational research, research methods in quantitative approaches and an introduction to qualitative methods, developmental research, sampling techniques, research variables, as well as the practice of formulating research proposals in chemistry education.
21	MPK6206	Chemistry Education Research Instruments	This course equips students with practical skills in developing instruments to be used in chemistry education research. These instruments are designed to meet the criteria of high-quality research tools. Additionally, the course focuses on determining the validity and reliability of the instrument's constructs, facilitated by the use of specialized software.
22	MPK6213	Chemistry Education Research Data Analysis	The course that studies data analysis design, descriptive and univariate inferential statistical data analysis, which includes difference tests as well as parametric and nonparametric correlation tests, along with practical data analysis using software to support chemistry education research.
23	MPK6234	Chemistry Education Scientific Publications	This course examines various forms of scholarly writing, the methodology for composing research-based scientific articles, issues of plagiarism and intellectual property rights, as well as the process of publishing scientific articles and applying these practices.

Chem	Chemistry Education Scientific Course			
24	MPK6207	Chemistry Learning Research Review Latest	This course examines various emerging trends in chemistry education that are currently prominent issues in both Indonesian and global education contexts through the analysis of research articles from national and international journals. Students will conduct an in-depth exploration of specific topics aligned with their interests, which will subsequently form the basis of their final research project or thesis.	
25	MPK6208	Learning Program Development Chemistry	This course is designed to equip students with the competence and skills to develop active, innovative, creative, engaging, and authentic chemistry learning programs based on the TPACK framework. The course content includes: preparing annual and semester programs, analyzing Core Competencies (KI), Basic Competencies (KD), Achievement Indicators (IPK), and subject matter, designing Lesson Plans (RPP) and their components with educational and contextual learning strategies, and adopting a student-centered approach.	
26	MPK6209	Chemistry for High School	This course discusses concepts related to High School Chemistry (SMA/MA) for Grades X, XI, and XII in accordance with the applicable curriculum. It begins by examining the Core Competencies (Kompetensi Dasar/KD) of the current curriculum and elaborates these competencies into High School Chemistry (SMA/MA) materials. The course addresses chemistry concepts that are inaccurately or improperly conveyed in high school, including misconceptions, by analyzing instructional videos and reviewing high school chemistry textbooks used by students. It also explores analogies of chemistry concepts as well as inaccurate analogies. Additionally, the course focuses on lesson preparation and other teaching tools (such as Student Worksheets) that align with the essence of Chemistry as a science (Natural Science/IPA), which encompasses both process and product.	
27	MPK6210	Chemistry for Vocational School	This course examines the structure of the curriculum in Vocational High Schools (SMK) and the chemistry material taught in SMK. The	

28	MPK6211	Chemistry	curriculum structure is studied in general, encompassing the differences between the curriculum structures of SMK and Senior High Schools (SMA), the spectrum of expertise in SMK, the position of chemistry subjects in SMK, and the principles of their development. The chemistry material covered includes topics that need to be strengthened by students according to their expertise programs in SMK. This course examines the use of software to develop
20	WII KOZII	Visualization for Learning	animation-based and simulation-based media for explaining and visualizing concepts of multiple representations in chemistry, the fundamentals of virtual laboratories, and augmented reality for chemistry education.
29	MPK6212	Context-Based Chemistry Learning	This course aims to present chemistry learning that is relevant to personal, social, and professional contexts. In this course, discussions will focus on the perspectives of context-based chemistry learning, the characteristics of context-based learning, modeling of context-based learning, the role of context in chemistry curriculum design, the use of Socio-Scientific Issues (SSI) and vocational expertise as contexts, as well as the challenges in designing context-based learning.
Science	ce of Chemis	try Course	
30	MKK6301	Basic Chemistry 1	chemistry, which encompass the scientific method, components of matter, stoichiometry and chemical reactions, states of gases, atomic structure, the periodic system of elements, chemical bonding, and organic compounds.
31	MKK6302	Basic Chemistry 2	This course discusses fundamental concepts of chemistry, including thermodynamics, kinetics, chemical equilibrium, acid-base equilibrium, ionic equilibrium in solutions, properties of solutions, electrochemistry, abundance of elements, and nuclear chemistry.
32	MKK6303	Math for Chemistry	This course includes learning about mathematical concepts and their applications in chemistry. These concepts include: coordinate systems, functions of one or more variables, differential-integral, differential equations, matrix-determinants,

			operators and vectors and data processing.
33	MKK6304	Chemistry Equilibrium	This course discusses the concepts of gases and their properties, the first law of thermodynamics and its applications, thermochemistry, the second and third laws of thermodynamics and their applications, chemical equilibrium, phase equilibrium, the physical properties of solutions, and electrochemical equilibrium.
34	MKK6305	Molecular Dynamics	This course studies molecular dynamics, which includes material on the theory of gas kinetics, molecules that move (including gases and solutions), chemical reaction rates (including: empirical chemical kinetics and explanation of rate laws), and macromolecules. The course includes theory and practicum in the laboratory.
35	MKK6306	Basic organic Chemistry	This course includes theory and practice which includes material: 1) Basic concepts of organic reactions, namely the structure of organic molecules, Kekule, Lewis, Pauling, resonant structures and conjugation, 2) structures, names, properties, oxidation reactions and mechanisms of substitution reactions and conformations of alkane compounds and cycloalkanes, 3) structures, structure, names, properties and mechanisms of addition reactions to alkenes and alkynes, 4) structure, names, properties and reaction mechanisms of halo alkane compounds, SN1/E1 and SN2/E2 and SNi, etc.
36	MKK6307	Structure and Reactivity Organic Compound	The structure and reactivity of organic compounds course contains concepts, structures, physical and chemical properties and reaction mechanisms in carbonyl compounds (aldehydes and ketones), amides, aromatic compounds, heterocyclic aromatics, stereochemistry, compounds with polyfunctional groups, carbohydrates, lipids, amino acids and proteins.
37	MKK6208	Structure Determination of Organic Compounds	This course encompasses the fundamental concepts of spectroscopy, the basic principles of UV, IR, NMR, and MS spectroscopy, as well as the elucidation of organic compound structures based on spectroscopic data.
38	MKK6309	Non-metallic Inorganic	This course includes theory and practice which includes: atomic structure of hydrogen and

		Chemistry	polyatoms, periodic trend of elements, symmetry
		-	and molecular group theory, covalent bonding models (valence bond theory and molecular orbital theory), acid-base and donor-acceptor chemistry, chemical reactions (reduction-oxidation), and chemistry of non-metallic main groups.
39	MKK6310	Metallic Inorganic Chemistry	Inorganic Chemistry of Metals studies the concepts of metallic bonding, ionic bonding, properties, reactions, and applications of metals in the alkali group, alkaline earth group, aluminum, transition elements, lanthanides and actinides, tin and lead, iron corrosion and its prevention, as well as reactions in various types of batteries.
40	MKK6211	Coordination Chemistry and Organometallic	Coordination Chemistry and Organometallic Chemistry discuss the Chemistry of Transition Elements, Complex Compounds, the Concept of Effective Atomic Number, and the Valence Bond Theory (Hybridization), Crystal Field Theory (Ligand Field Theory), and Molecular Orbital Theory of Complex Compounds. Laboratory experiments involve Complex Compounds of Aluminum, Chromium, Iron, Cobalt, Nickel, and Copper with various ligands. Organometallic Chemistry covers the concepts and history of organometallic compounds, reaction mechanisms, examples of reactions involving some organometallic reagents and their applications, as well as the use of organometallic compounds in industry.
41	MKK6312	Fundamentals of Chemistry Analytical	-
42	MKK6313	Chemical Separation Method	This course examines the various principles of analytical separation, some influencing factors, methods of electrochemical separation and analysis and separation by membrane.
43	MKK6314	Chemistry Instrumentation	This course includes theory and practice in the laboratory which includes the scope of instrument chemistry, colorimetry, and various modern analytical methods such as spectrophotometry UV-

			VIS, FTIR, Mass, NMR, and SSA which are useful
			for conducting chemical research.
44	MKK6315	Biochemistry	This course examines the chemical structure, functions, and chemical processes within cells (the smallest units of living organisms), which include carbohydrates, lipids, proteins, enzymes, minerals, vitamins, and water in the chemical processes (metabolism) of carbohydrates, lipids, and proteins. It also discusses nucleic acids, genetic engineering, hormones, nutrition and food, as well as practical aspects of the properties and chemical reactions of carbohydrates, lipids, proteins, and enzymes.
45	MKK6216	Environmental Chemistry	This course examines the sources, reactions, transport, effects and effects of chemical species in the air, water and soil environments, as well as the influence of human activities on these processes.
46	MKK6217	Management Chemistry Laboratory	In this course, the material is studied (1) understanding, objectives and scope of laboratory management, (2) understanding and laboratory functions, (3) laboratory design and layout, (4) tool management, (5) material management, (6) tool selection criteria, (7) work safety in the laboratory, (8) assessment of learning activities in the laboratory, (9) laboratory waste management, (10) hazardous experiment techniques, and (11) MSDS.
47	MKK6218	Environmentally Friendly Materials Chemistry	The course on Environmentally Friendly Material Chemistry studies the concepts and development of environmentally friendly material chemistry, including polymers, to support ESD.
48	MKK6219	Chemistry Research	A course that studies the basic methods of chemical research and the practice of simple chemical research to be applied in the context of fostering scientific work activities in schools.
49	MKK6220	Fundamentals of Chemistry Computing	This course discusses computational chemistry methods, the strengths and weaknesses of each computational chemistry method, as well as the application of modeling simple molecules. The course encompasses the study of fundamental concepts in computational chemistry, which pertain to computational chemistry methods and their applications.
50	MKK6221	Chemistry Based	A course that equips students to develop business
		Entrepreneurship	plans and practice chemistry-based small businesses

			or chemical education.
Out o	f University	Study Program Co	ourses
51	MKL6601	Educational Practices	Educational practice refers to the activity of teaching chemistry subjects in senior high schools (SMA) or vocational high schools (SMK), as well as analyzing the challenges of various learning components in the field, teacher self-development, and the management of educational programs in schools.
52	MKL6604	KKN (Working College Real)	This course is a field course that is expected to be able to teach students to apply science and develop ethics in community life, provide solutions to problems in society appropriately by emphasizing the involvement of local wisdom and regional potential.
53	TAM6801	Thesis	This course equips students with the ability to analyze problems in the field of chemical education, design problem-solving solutions, conduct research, compile research reports in the form of a final thesis, reflect on the research process, and defend their work before an examination board. The entire process is carried out under the intensive guidance of a supervising lecturer.

Additional Course Description Strengthening Chemistry Education

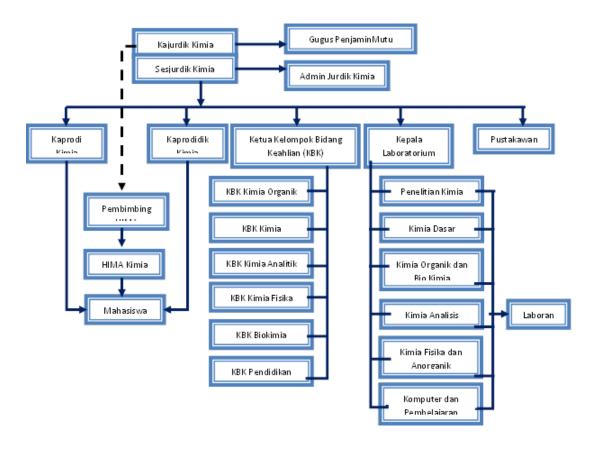
No	Code	Course Name	Course Description
Chem	istry Educat	ion Research	-
1	MPK6218	Qualitative Research Chemistry Education	This course provides students with the ability to analyze problems in the field of chemical education, design problem-solving strategies, conduct research, compile research reports in the form of a final thesis, reflect on the research process, and defend their work before an examination panel. The entire process is conducted under the intensive supervision of an academic advisor.
2	MPK6219	Thematic Research Chemistry Education	This course discusses various documentary research methods, data collection and analysis, implementation of metaanalysis and systematic review in chemical education and compiles one simple thematic review article.
3	MPK6220	Action Research Chemistry Education	This course focuses on designing and preparing action research to address issues in chemistry learning. This course comprehensively discusses Classroom Action Research (CAR), including

			problem identification, action planning,
			instruments, data analysis, and reporting.
4	MPK6221	Multivariate	This course examines research design for
		Analysis	multivariate data analysis such as MANOVA,
		Educational	MANCOVA, repeated measures ANOVA, multiple
		Research	regression, and their practical application using
		Chemistry	software.
Relev	vance of Cher	nistry and Society	Learning
5	MPK6214	Strategy Trend Chemistry Learning	The course that studies the philosophy, concepts, and integration of STEM (Science, Technology, Engineering, and Mathematics) in chemistry education at senior high schools (SMA) and vocational high schools (SMK), designs STEM-based chemistry learning tools, produces examples of STEM products, and analyzes trends in approaches, models, and learning strategies that can
			be implemented in chemistry education.
6	MPK6125	Chemistry Experiment at School	This course explores the fundamentals of chemical experiments at the elementary and secondary school levels. It focuses on the design of chemical experiments in school-based learning, analyzing them from the perspectives of conceptual understanding, contextual relevance, and practical implementation in school settings. Additionally, the course examines various forms of applications of chemical experiments in educational practices within schools.
7	MPK6217	Chemistry	This course examines the principles of Education for
, ,	1122 220 2 2 7	Learning for Sustainable Development	Sustainable Development (ESD) and their implementation in chemistry education, the principles of green chemistry and its integration into chemistry learning, as well as the concept of transformative education and its various aspects.
8	MPK6217	Chemical	The course discusses the concepts and aspects of
		Literacy and the Environment	chemical and environmental literacy, how to develop them in learning, and the development of instruments to measure the levels of chemical and environmental literacy.
		Chemistry Learn	
9	MPK6222	Online Learning for Chemistry	The course encompasses the design of online chemistry education, both fully online and blended learning, which integrates asynchronous learning through a Learning Management System (LMS) and synchronous learning via video conferencing to achieve effective chemistry education. This course also explores the utilization and development of various LMS and the efficient packaging of online chemistry learning materials.
10	MPK6223	Development of	This course equips students with the ability to
		Electronic	develop teaching materials, such as modules,

11	MPK6224 MPK6225	Chemistry Learning Resources Educational Games in Chemisty Learning Social Media in Chemistry Learning	student worksheets, virtual laboratories, or electronic textbooks, by integrating chemical modeling approaches and specific teaching models/methodologies. The course equips students with the ability to utilize and develop both traditional and digital games as educational tools in teaching chemistry at the high school level, as well as introductory chemistry media for middle school and elementary school students. This course emphasizes the development and utilization of social media to introduce and educate the public about chemistry in relation to everyday
		C	life topics or popular issues, employing a social approach such as vodcasts.
		gy and School Ma	
13	MPK6226	Thinking Strategies in Chemistry Learning	This course focuses on the study of Higher-Order Thinking Skills (HOTS) and thinking strategies, including argumentation skills, problem-solving skills, reasoning, and decision-making, as well as the development of instruments to measure these competencies.
14	MPK6227	English for Chemistry Classroom	This course prepares chemistry education students as prospective educators in bilingual educational institutions by equipping them with knowledge of general classroom conversation, English for learning, and communication in the field of chemistry education.
15	MPK6228	Management of Scientific Extracurricular at School	This course examines the management of youth scientific activities in schools, encompassing the stages of planning, organization, and evaluation, as well as the management of activities and students. Students are provided with an understanding that extracurricular activities play a significant role in fostering scientific engagement and development among young individuals.
16	MPK6229	History and Perspectives Chemistry	This course examines the development (history) of chemistry from prehistoric times to the early 20th century through a philosophical analysis of its historical progression, with an emphasis on how past chemists thought and worked while simultaneously developing, evaluating, and employing new theories and practical methods, as well as their applications in the process of teaching chemistry at the secondary school level.
		ment of Chemical	
17	MPK6230	Assessment Development Chemistry e- Learning	This course examines the components of chemistry learning assessment conducted online and utilizes various applications or software to develop assessment instruments in chemistry education.

18	MPK6231	Diagnostic Test	The course discusses the types and formats of
		in Chemistry	diagnostic tests, such as the identification of
		Learning	misconceptions, learning difficulties, and chemistry
		_	learning anxiety, as well as the development of
			effective assessments.
19	MPK6232	Affective and	This course equips students with an understanding
		Character	of the concepts of character education in Indonesia
		Assessment in	and other countries, the concepts of attitude
		Chemistry	assessment, and the development of measurement
		Learning	instruments.
20	MPK6233	Project Based	This course explores the concept of project-based
		Assessment in	assessment and develops measurement instruments
		Chemistry	for evaluating the process, product, and creativity of
		Learning	projects carried out.

C. ORGANIZATIONAL STRUCTURE OF CHEMISTRY EDUCATIONAL DEPARTMENT



D. DETAILS DUTIES OF THE CHAIRMAN, SECRETARY, AND COORDINATOR

a. Head of the Departement of Chemistry Education 2020-2024 Term

Full Name : Dr. Dra. Retno Arianingrum, M.Si.

Functional Positions : Head Lector

Structural Positions : Head of the Departement NIP : 196812151998022001

NIDN : 0015126803

Place and Date of : Sul

Birth

Sukoharjo, 15 December 1968

Address : Jl. Perumnas CT 15 No.239 A

Yogyakarta

Phone Number : 484638/0817260172

Office Address : Study Program of Chemistry Education

Faculty Mathemathics and Science,

Yogyakarta State University

Postal Code : 55281

E-mail Address : <u>arianingrum@uny.ac.id</u>
Educational : S1 Chemistry-UGM
Background S2 Biotechnology-UGM

S3 Biotechnology-UGM

Courses Taught : 1. Chemistry

(Last 3 Years) 2. Organic Chemistry

3. Biochemistry

The Head of the Department is responsible for formulating plans, providing guidance, coordinating, and evaluating the implementation of educational and teaching activities, research, and community service conducted by lecturers within the department, in accordance with applicable regulations to ensure the smooth execution of duties.



b. Secretary of the Departement of Chemistry Education 2020-2024 Term

Full Name Erfan Priyambodo, M.Si.

Functional **Head Lector**

Positions

Structural Secretary of the Departement

Positions

NIP 198209252005011002

NIDN 0025098203

Place and Date of

Gunung Kidul, 25 September

Birth

1982

Address Gatak RT 02 RW 21, Sidoluhur,

Godean, Sleman

Phone Number 085643036257

Study Program of Chemistry Office Address

Education

Postal Code 55281

E-mail Address erfan@uny.ac.id

Educational S1 Chemistry Education-UNY

Background S2 Analitycal Chemistry-SPs ITB

S3 Chemistry Education- UNY

Courses Taught 1. Kimia Dasar

(Last 3 Years)

2. Pengajaran Mikro Kimia

3. Kimia SMK

4. History of Chemistry

Literature

5. Aplikasi Komputer untuk

Kimia

6. Pengembangan Media Belajar

Kimia

The Department Secretary is tasked with providing guidance, coordinating, and evaluating the implementation of educational and teaching activities, research, and community service conducted by lecturers within the department, in accordance with applicable regulations to ensure the smooth execution of duties.



c. Coordinator of the Departement of Chemistry Education 2020-2024 Term

Full Name : Prof. Dr. Antuni Wiyarsi, M.Sc

Functional : Professor

Positions

Structural : Head of the Bachelor Chemistry

Positions Education Study Program NIP : 19800825 200501 2 002

NIDN : 0025088002

Place and Date of

Birth

Temanggung, 25 August 1980

Address : Perum Kamal Wetan No. A4, Rt 3

Rw 15, Margomulyo, Seyegan,

Sleman

Phone Number : 081328681494

Office Address : Study Program of Chemistry

Education

Postal Code : 55281

E-mail Address : antuni w@uny.ac.id

Educational : S1 Chemistry Education UNY
Background : S2 Analytical Chemistry-UGM

S3 Sains Education-UPI

Courses Taught

(Last 3 Years)

1. Models of Chemistry Learning

2. Research Methods in Chemistry

Learning

3. Context-Based Chemistry

Learning

4. Research Instruments in Chemistry Learning

5. Scientific Publication

6. Scientific Writing

7. Thematic Studies in Chemistry

Education

The Head of the Study Program is responsible for formulating plans, providing guidance, and evaluating the implementation of educational and teaching activities, research, and community service conducted within the study program environment, in accordance with the prevailing regulations to ensure the smooth execution of duties.



E. LABORATORY COORDINATOR OF THE DEPARTEMENT OF CHEMISTRY EDUCATION

Coordinator Sub Laboratory Organic Chemistry dan Biochemistry

Full Name : Prof. Dr. Sri Handayani, M.Si

Functional : Professor

Positions

NIP : 197007131997022001

NIDN : 0013077006

Place and Date of : Sukoharjo, 13 Juli 1970

Birth

Address : Perumahan Citra Ringin Mas

Purwomartani, Kalasan, Sleman

D36

Phone Number : 4395896/087878400458 E-mail Address : <u>handayani@uny.ac.id</u>

Coordinator Sub Laboratory Basic Chemistry

Full Name : C. Budimarwati, M.Si

Functional : Head Lector

Positions

NIP : 19660330 199002 2 001

NIDN : 0030036602

Place and Date: Bantul, 30 March1960

of Birth

Address : Perum Lojajar Indah D.69,

Sinduharjo, Ngaglik Sleman,

Yogyakarta, 55581

Phone Number : 864944/08122797183

E-mail Address : cornelia budimarwanti@uny.ac.id



Coordinator Sub Laboratory Physics and Anorganic Chemistry

Full Name : M. Pranjoto Utomo, M.Si

Functional : Head Lector

Positions

NIP : 197104081998021002

NIDN : 0008047106

Place and Date of : Klaten, 8 April 1971

Birth

Address : Jalan Turi VII/180, Karangasem,

RT15/RW12 Gempol,

Condongcatur, Depok, Sleman

55283

Phone Number : 081328224217

E-mail Address : <u>pranjoto utomo@uny.ac.id</u>



Full Name : Sunarto, M.Si Functional : Head Lector

Positions

NIP : 196106081988121001

NIDN : 0008066107

Place and Date of : Klaten, 8 June 1961

Birth

Address : Jl.Gabus III/23, Minomartani,

Ngaglik, Sleman, Yogyakarta

Phone Number : 08156868046

E-mail Address : sunarto@uny.ac.id

Coordinator Sub Laboratory Computer and Chemistry Education

Full Name : Anggiyani Ratnaningtyas Eka

Nugraheni, M.Pd

Functional : Expert Assistant

Positions

NIP : 19870909 201404 2 001

NIDN : -

Place and Date of : Wonogiri, 9 September 1987

Birth

Address : Giritontro Lor RT 01/RW 02,

Giritontro, Wonogiri

Phone Number : 082224097619

E-mail Address : <u>anggiyaniratnaningtyas@uny.ac.id</u>





Coordinator Sub Laboratory Chemistry Research

Full Name : Prof. Dr. Sri Atun

Functional : Professor

Positions

NIP : 196510121990012001

NIDN : 0012106503

Place and Date of : Kulon Progo, 12 October 1965

Birth

Address : Soropadan DP III No.47

Condongcatur, Depok, Sleman,

DIY

Phone Number : 549186/081320318642

E-mail Address : sriatun@uny.ac.id



Details of Duties

The Head of the Laboratory is responsible for the execution of academic activities within the laboratory. The Head of the Laboratory has the following duties and functions:

- a. Coordinating all laboratory activities.
- b. Planning and developing the laboratory.
- c. Managing laboratory personnel.
- d. Monitoring and evaluating the utilization of laboratory facilities and infrastructure.
- e. Providing evaluations of the performance of sub-laboratory heads and laboratory technicians.

The Head of the laboratory is assisted by 6 sub-laboratory coordinators, each with a one-year term of service, appointed by the Dean's Decree. The sub-laboratory heads for chemistry consist of:

a. Coordinator Sub Laboratory Basic Chemistry

The coordinator of the sub-laboratory, along with several lecturers and laboratory technicians, assists in developing/preparing the requirements for basic chemistry practicums and research.

b. Coordinator Sub Laboratory Organic Chemistry dan Biochemistry

The coordinator of the sub-laboratory, along with several lecturers and laboratory technicians, assists in developing laboratory activities, including practical sessions and research related to organic chemistry and biochemistry.

c. Coordinator Sub Laboratory Analytical Chemistry

The coordinator of the sub-laboratory, along with several lecturers and laboratory technicians, assists in developing laboratory activities in the form of practical sessions related to analytical chemistry, as well as instrumentation.

d. Coordinator Sub Laboratory Computer

The coordinator of the sub-laboratory, along with several lecturers and laboratory assistants, contributes to the development of laboratory activities, including practical sessions and research related to computers.

e. Coordinator Sub Laboratory Chemistry Education

The coordinator of the sub-laboratory, along with several lecturers and laboratory technicians, assists in developing microteaching activities.

f. Coordinator Sub Laboratory Instrument

Specifically for the laboratory, the instruments are directly managed by the Head of the Department of Chemistry Education.

F. ADMIN OF THE DEPARTMENT OF CHEMISTRY EDUCATION

Full Name : Yossi Inti Rachmawati, SE Place and Date : Semarang, 3 Januari 1983

of Birth

Address : Jl. Tongkol VII/9, Minomartani,

Ngaglik, Sleman

Phone Number : 085728962408

E-mail Address : Ochie.uny@gmail.com



Details of Duties

Perform departmental administrative service.

G. ROSTER OF CHEMISTRY EDUCATION DEPARTEMENT LECTURE

1. Chemistry Education Expert Group

Full Name : Prof. Dr. Antuni Wiyarsi, M.Sc.

Functional : Professor

Positions

NIP : 19800825 200501 2 002

NIDN : 0025088002

Place and Date of : Temanggung, 25 August 1980

Birth

Address : Perum Kamal Wetan No. A4,Rt 3

Rw 15, Margomulyo, Seyegan,

Sleman

Phone Number : 081328681494

E-mail Address : Program Studi Pendidikan Kimia

Klaten, 4 June 1960

Full Name : Heru Pratomo AL, M.Si

Functional : Head Lector

Positions

NIP : 196006041984031002

NIDN : 0004066012

Place and Date of :

Birth

Address : -

Phone Number : 081328259725

E-mail Address : <u>H pratomo@yahoo.com</u>

Full Name : Dr. Das Salirawati

Functional : Lector

Positions

NIP : 19651016 199203 2 001

NIDN : 0016106504

Place and Date of : Sukoharjo, 16 October 1965

Birth

Address : Perum Banteng Baru, Jl. Banteng

Jaya II/32 Condong Catur, Depok,

Sleman 55283

Phone Number : 880538/08156870955

E-mail Address : das salirawati@uny.ac.id







Full Name : Dra. Rr. Lis Permana Sari, M.Si

Functional : Lector

Positions

NIP : 19681020 199303 2 002

NIDN : 0020106803

Place and Date of

Birth

Purworejo, 20 Oktober 1968

Address : Griya Purwo Asri E-401,

Purwomartani, Kalasan, Sleman

Phone Number : 4395690/ 08122747253 E-mail Address : <u>lis permanasa@uny.ac.id</u>

Full Name : Dr. Erfan Priyambodo, M.Si.

Functional : Head Lector

Positions

NIP : 198209252005011002

NIDN : 0025098203

Place and Date of : Gunung Kidul, 25 September

Birth

1982

Address : Gatak RT 02 RW 21, Sidoluhur,

Godean, Sleman

Phone Number : 085643036257

E-mail Address : <u>erfan@uny.ac.id</u>

Full Name : Sukisman Purtadi, S.Pd., M.Pd.

Functional : Lector

Positions

NIP : 197611222003121002

NIDN :

Place and Date of : Brebes, 22 November 1976

Birth

Address : Magelang
Phone Number : 081211221176
E-mail Address : purtadi@uny.ac.id







Full Name : Dina, M.Pd Functional : Expert Assistant

Positions

NIP : 198804282014042001

NIDN : -

Place and Date of

Birth

Pekalongan, 28 April 1988

Address : Jenggot Gang 1 No. 22 RT 003

RW. 001 Pekalongan Selatan, Pekalongan, Jawa Tengah 51133

Phone Number : 0899600654 E-mail Address : dina@uny.ac.id

Full Name : Nur Fitriyana, M.Pd.

Functional : Lector

Positions

NIP : 199403192019032029

NIDN : 0019039401

Place and Date of : Cilacap, 19 Maret 1994

Birth

Address : -

Phone Number : 08562604950

E-mail Address : nur.fitriyana@uny.ac.id

Full Name : Metridewi Primastuti, MPd.

Functional : Expert Assistant

Positions

NIP : 19930927 201903 2 020

NIDN : 00027099301

Place and Date of

Birth

Address : -

Phone Number : 08995052323

E-mail Address : <u>metridewi.primastuti@uny.ac.id</u>







Karanganyar, 27 September 1993

Full Name : Yunilia Nur Pratiwi, M.Pd.

Functional : Expert Assistant

Positions

NIP : 1198906302023092047

NIDN :

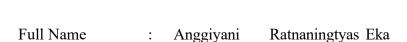
Place and Date of : 30 June 1989

Birth

Address :

Phone Number :

E-mail Address : yunilianurpratiwi@uny.ac.id



Nugraheni, M.Pd Functional : Expert Assistant

Positions

NIP : 19870909 201404 2 001

NIDN : -

Place and Date of : Wonogiri, 9 September 1987

Birth

Address : Giritontro Lor RT 01/RW 02,

Giritontro, Wonogiri

Phone Number : 082224097619

E-mail Address : anggiyaniratnaningtyas@uny.ac.id

2. Analytical Chemistry Expert Group Coordinator Analytical Chemistry Expert Group

Full Name : Prof. Dr. Suyanta, M.Si

Functional : Professor

Positions

NIP : 196605081992031002

NIDN : 0008056607

Place and Date of : Blora, 8 April 1966

Birth

Address : Griya Purwa Asri C-230,

Purwamartani, Kalasan, Sleman

Phone Number : 7111506/081578848275

E-mail Address : <u>suyanta@uny.ac.id</u>







Full Name : Dr. Siti Marwati, M.Si.

Functional : Lector

Positions

NIP : 19770103 200604 2 001

NIDN : 0003017703

Place and Date of

Birth

Address : Sangubanyu, Sumberrahayu,

Moyudan, Sleman

Sleman, 3 Januari 1977

Phone Number : 08156805989

E-mail Address : siti marwati@uny.ac.id

Full Name : Dra. Regina Tutik Padmaningrum,

M.Si

Functional : Head Lector

Positions

NIP : 19650911 199101 2 001

NIDN : 0011096502

Place and Date of :

Birth

Address

arth

Kulon Progo, 11 September 1965

Sembuhan V, Sendangmulyo,

Minggir

Phone Number : 7486393/081328720107 E-mail Address : regina tutikp@uny.ac.id

Full Name : Sulistyani, M.Si

Functional : Lector

Positions

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NIDN : 0003018003

Place and Date of :

Birth

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RW05, Jetis, DIY

Rembang, 3 Januari 1980

Phone Number : 0857255732820

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Full Name : Annisa Fillaeli, M.Si Functional : Expert Assistant

Positions

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Place and Date of

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Birth

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3. Inorganic Chemistry Expert Group Coordinator Inorganic Chemistry Expert Group

Full Name : Prof. AK Prodjosantoso, Ph. D.

Functional : Professor

Positions

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NIDN : 0028106005

Place and Date of :

Birth

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Phone Number : 620711/08122791409

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Full Name : Prof. Dr. Hari Sutrisno

Functional : Professor

Positions

NIP : 196704071992031002

NIDN : 0007046702

Place and Date of : Banyuwangi, 07 April 1967

Birth

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Full Name : M. Pranjoto Utomo, M.Si

Functional : Head Lector

Positions

NIP : 197104081998021002

NIDN : 0008047106

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Birth

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RT15/RW12 Gempol,

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55283

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E-mail Address : pranjoto utomo@uny.ac.id

Full Name : Prof. Dr. Dyah Purwaningsih,

M.Si.

Functional : Professor

Positions

NIP : 197807222003122001

NIDN : 0022077801

Place and Date of : Kulonprogo, 22 Juli 1976

Birth

Address : Jl. Nusa Indah No 14 Kenteng,

Nogotirto

Phone Number : 632244/0817462056

E-mail Address : dyah purwaningsih@uny.ac.id

Full Name : Dr. Cahyorini Kusumawardani,

M.Si.

Functional : Lector

Positions

NIP : 197707232003122001

NIDN : 0023077704

Place and Date of

Birth

Bojonegoro, 23 Juli 1977

Address : -

Phone Number : 798623/0818467905 E-mail Address : cahyorini.k@uny.ac.id

Full Name : Dr. Kun Budiasih, M.Si.

Functional : Lector

Positions







NIP : 197202022005012001

NIDN : 0002027213

Place and Date of : Klaten, 2 Februari 1972

Birth

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raaya 1, no. 2 Gandok Tambakan,

ngaglik, Sleman, DIY

Phone Number : 081328791606 E-mail Address : <u>kunsb@uny.ac.id</u>

Full Name : Isti Yunita, M.Sc Functional : Expert Assistant

Positions

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NIDN : -

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Birth

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E-mail Address : isti yunita@uny.ac.id

4. Physics Chemistry Expert Group Coordinator Physics Chemistry Expert Group

Full Name : Prof. Dr. Endang W.L.F.X., M.Si.

Functional : Professor

Positions

NIP : 19621203 198601 2 001

NIDN : 0003126206

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Birth

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087839232840

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Full Name Prof. Jaslin Ikhsan, Ph.D.

Pati, 29 Juni 1968

Functional Professor

Positions

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NIDN 0029066806

Place and Date of

Birth Address

Prambanan Phone Number 081328608258 E-mail Address jikhsan@uny.ac.id

Full Name Dr. Suwardi M.Si

Functional Lector

Positions

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0022076703 **NIDN**

Place and Date of

Birth

Address Magelang, Jawa Tengah 56485

Magelang, 22 Juli 1967

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Full Name Prof. Dr. Isana Supiah YL.,

M.Si.

Functional Professor

Positions

NIP 196109231988122001

NIDN 0023096104

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Birth

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Semarang, 23 September 1961

Krajan, Wedomartani, Ngemplak, Sleman

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Full Name : Dewi Yuanita L., M.Sc.

Functional : Expert Assistant

Positions

NIP : 198106012005012002

NIDN : 0001068103

Place and Date of

Place and Date of

Birth

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Sambilegi kidul No 174 Rt 05

Yogyakarta, 1 Juni 1981

Rw 57 Maguwoharjo, Depok,

Sleman DIY 55282

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5. Organic and Biochemistry Expert Group Coordinator Organic Chemistry Expert Group

Full Name : Prof. Dr. Sri Handayani, M.Si

Functional : Professor

Positions

NIP : 197007131997022001

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Place and Date of

Birth

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Address : Perumahan Citra Ringin Mas

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Coordinator Biochemistry Expert Group

Full Name : Dr. Retno Arianingrum, M.Si

Functional : Head Lector

Positions

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Place and Date of : Sukoharjo, 15 Desember 1968

Birth

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Phone Number : 484638/0817260172 E-mail Address : arianingrum@uny.ac.id



Full Name : Prof. Dr. Sri Atun

Functional : Professor

Positions

NIP : 196510121990012001

NIDN : 0012106503

Place and Date of : Kulon Progo, 12 Oktober 1965

Birth

Address : Soropadan DP III No.47

Condongcatur, Depok, Sleman,

DIY

Phone Number : 549186/081320318642

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Full Name : Dra. Cornelia Budimarwati, M.Si.

Functional : Head Lector

Positions

NIP : 19660330 199002 2 001

NIDN : 0030036602

Place and Date of :

Birth

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Bantul, 30 Maret 1960

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Full Name : Prof. Dr. Nurfina Aznam Apt.

Functional : Professor

Positions

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Birth

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Full Name Dini Rohmawati, M.Sc

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Positions

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NIDN

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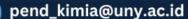


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