



**MINISTRY OF RESEARCH, TECHNOLOGY, AND HIGHER EDUCATION
UNIVERSITAS NEGERI YOGYAKARTA**

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STAFF HANDBOOK

A. Personal Identity

1.	Full Name	Prof. Dr. Endang Widjajanti Laksono FX, M.S
2.	Functional Position	Professor (850)
3.	NIP	196212031986012001
4.	Place and Date of Birth	Semarang, 3 Desember 1962
5.	Phone	-
6.	Office Address	Juridik Kimia FMIPA UNY Karangmalang Yogyakarta 55281
7.	Telephon/Fax	(0274)548203
8.	E-mail	Endang_widjajanti@uny.ac.id
9.	Specific Expertise	Kimia fisika
10.	Subjects taught	1. Keseimbangan kimia
		2. Spektroskopi atomik dan molekular
		3. Kimia Permukaan dan Koloid
		4. Surfaktan dan aditif
		5. Teknologi Membran
		6. Spektrokimia (S2)
		7. Permasalahan dalam Pendidikan Kimia (S2)
		8. Strategi Pembelajaran Kimia (S3)

B. Educational Background

Program	S1	S2	S3
1. Institution Name	IKIP Semarang	ITB Bandung	Univ. Paris VI, Prancis
2. Field	Pend. Kimia	Kimia Fisik	Kimia Fisik & analitik
3. Year of Entry	1981	1990	1998
4. Graduation Year	1985	1992	2001
5. Title of Undergraduate Thesis/ Master	Korelasi antara nilai penunjang dengan prestasi belajar kimia	Pengaruh cincin aromatik dan jumlah atom N terhadap	L'étude de l'interaction de l'ammoniac avec des

Thesis/ and Dissertation	siswa SMA Kodya Semarang	kekuatan ligan N-heerosiklik pada senyawa kompleks Nikel(II)	surfaces de Ni(II) pre-traitées sous oxygène st de l'hydroxylation
6. Promotor	Dr. Suyono	Dr. Susanto Imam Rahayu	Prof. Philip Marcus, Ph.D

C. Training Experience

No	Training Field	Organizer	Year	Certificate

D. Research Experiences

No	Year	Research Title	Funding	
			Source	Amount (Milion Rp)
1	2014	Penggunaan Lumpur Aktif Sebagai Material Untuk Biosorpsi Pewarna Remazol	DIPA FMIPA UNY	4
2	2014	Adsorpsi Limbah Pewarnaan oleh Selulosa Asetat dari Nata	DIPA FMIPA UNY	10
3	2014	Implementasi <i>Lesson Study</i> melalui penerapan <i>problem solving</i> secara kelompok kooperatif pada perkuliahan Kimia Fisika IV	DIPA FMIPA UNY	5
4	2014-2015	Pengembangan Material Penutup Luka Berbasis Komposit Selulosa Bakteri - Kitosan	MENRISTEK	180
5	2015	Pemanfaatan Limbah Air kelapa sebagai Membran Elektrolit Baterai Lithium yang Ramah Lingkungan	DIPA - UNY	20
6	2015	Pemanfaatan Limbah Kulit salak sebagai adsorben yang potensial untuk untuk pengolahan limbah pewarna Remazol	DIPA- FMIPA	4
7	2016-2018	Pengembangan instrumen integrated assessment untuk mengukur pencapaian aspek kognitif dan keterampilan proses sains kimia peserta didik SMA/ MA	DIKTI- HIBAH TIM PASCA SARJANA	384.016
8	2016	Sintesis Membrane elektrolit berbasis selulosa asetat dengan memanfaatkan daun pandan duri	DIPA-FMIPA	10
9	2017	Voltamogram Siklik Stainless Steel dalam berbagai media	DIPA- FMIPA	10
10	2018	Aktivitas Elektroda Stainles Steel dalam Media Tepung Fermentasi	DIPA- Pascasarjana	20
11	2018	Sintesis Film Berbasis Selulosa Sebagai Pengawet Bahan Pangan	DIPA UNY	25
12	2019	Model penanganan limbah cair melalui studi kompleksasi permukaan kaolin terjenuhkan kation dan bahan beracun berbahaya	DIPA- FMIPA	20

E. Community Service Experiences

No	Tahun	Community Service Title	Funding	
			Source	Amount (Milion Rp)
1	2014	Pelatih Olimpiade Kimia tk. Propinsi DIY	MGMP Sleman	20
2	2014	Pengolahan limbah cair dari pewarnaan industri batik	DIPA-FMIPA	4
3	2015	Penyuluh dalam kegiatan Peningkatan Nilai Ekonomi dan Pembuatan Pellet Ikan sebagai Alternatif untuk Mengurangi Limbah ayam Potong	DIPA UNY	15
4	2016	Pelatihan Pembuatan Pewangi Laundry sebagai upaya nyata meningkatkan kesejahteraan warga	DIPA FMIPA	4
5	2016	Pemanfaatan limbah pertanian untuk pembuatan briket	DIPA UNY	15
6	2016	Pengembangan Subject Matter Content Knowledge Berbasis Review dan Artikel Jurnal Nasional dan Internasional Bagi Guru-Guru Kimia SMA/SMK/MA di Daerah Istimewa Yogyakarta	DIPA-Pascasarjana	12,5
7	2017	Pelatihan pembuatan pelembut cucian yang ramah lingkungan	DIPA-FMIPA	5
8	2017	Pengayaan Materi Prakarya Teknologi Kimia bagi Guru Prakarya dan Kewirausahaan di Sekolah Menengah Atas	DIPA-FMIPA	5
9	2018	Pelatihan materi kimia menuju siap Olimpiade dan Penelitian pada Siswa SMA di Kabupaten Temanggung	DIPA UNY	9
10	2019	Pelatihan Teknis Pengelolaan Bahan Kimia dalam Kehidupan Sehari-hari bagi Masyarakat di Sleman	DIPA FMIPA	6

F. Internationa; Seminar/Workshop/Convention Experience

No	International Seminar/Workshop	Year	Position (Participant, Presenter, Keynote Speaker)
1	ICRIEMS,	2014	Presenter
2	ICRIEMS	2016	Presenter
3	IPCSM, Malaysia	2016	Presenter
4	ISSE	2016	Presenter
5	ICRIEMS	2017	Presenter
6	IPCSM	2017	Presenter
7	ISSE	2017	Presenter
8	5 th ICRIEMS	2018	Presenter
9	ICChem	2018	Presenter

G. Local and National of Seminar/Workshop/Convention Experience

No	Local and National Seminar/ Workshop/ Convention	Year	Position (Participant, Presenter, Keynote Speaker)

H. Publication on International Journal

No	Title	Year	Journal Name and Edition
1	Conductivity of Cellulose Acetate Membranes from Pandan Duri Leaves (<i>Pandanus tectorius</i>) for Li-ion Battery https://doi.org/10.1051/mateconf/20166404001	2016	MATEC web of conf. vol 64, 04001, hal 1-4
2	Exploring Item Validity: Critical-Science Process Skills Integrated Assessment Instrument on Electrolyte Solution and Acid Base Matter http://www.theijst.com/wp-content/uploads/2017/02/2.-ST1701-011-Updated.pdf	2017	The International journal of Technoledge, Vol 5, o 1
3	Effective Laboratory Work in Biochemistry Subject: Students' and Lecturers' Perspective in Indonesia http://www.sciedupress.com/journal/index.php/ijhe/issue/view/533	2017	International Journal of Higher Education, 6(2), 100-109
4	Characterization and the activity of bacterial cellulose prepared from rice waste water by addition with glycerol and chitosan	2017	Journal of Agricultural and Biological Science, vol 12, no 8
5	The Use of Orientation/Decision/Do/Discuss/Reflect (OD3R) Method to Increase Critical Thinking Skill and Practical Skill in Biochemistry Learning Doi : 10.1002/bmb.21096 (http://iubmb.onlinelibrary.wiley.com/hub/search/?journal-doi=10.1002%2F%28ISSN%291539-3429&q=yunita)	2017	Journal: Biochemistry and Molecular Biology Education, vol 45 no 6
6	Adsorption Mechanism of Direct Red on Cellulose Acetate From <i>Ananas Comous</i> Leaves Doi : http://dx.doi.org/10.13005/ojc/330657	2017	Oriental Journal of Chemistry, Vol 33 no 6
7	Lala Clam (<i>Orbicularia Orbiculata</i>) Shell as an Adsorbent for Anionic and Cationic Dyes from Aqueous Solution	2018	Fresenius Environmental Bulletin, Vol 27 – No. 5A/2018 pages 3386-339
8	Meaningful Biochemistry Learning Using the Orientation-	2018	International

	Decision-Do-Discuss Reflect (OD3R) Method		Journal of Instruction, Vol 11, no 3
9	Development and Validation of an Integrated Assessment for Measuring Critical Thinking and Chemical Literacy in Chemical Equilibrium	2018	International Journal of Instruction, Vol 11, no 3
10	Problem-based learning implementation to develop critical thinking and science process skills of madrasah Aliyah students in Yogyakarta http://iopscience.iop.org/article/10.1088/1742-6596/1097/1/012059	2018	J.Phys.: Conf. Ser., Vol 1097, 012059,
11	Development and Validation of an Integrated Assessment Instrument to Assess Students' Analytical Thinking Skills in Chemical Literacy https://doi.org/10.12973/iji.2018.11416a	2018	International Journal of Instruction, Vol 11, no 4
12	The ability of analytical thinking and chemistry literacy in high school students learning http://iopscience.iop.org/article/10.1088/1742-6596/1097/1/012061	2018	J.Phys.: Conf. Ser., Vol 1097, 012061
13	The effect of discovery learning on students' integrated thinking abilities and creative attitudes, doi:10.1088/1742-6596/1156/1/012018	2019	J. Physics: Conf. Ser 2019, vol 1156
14	Implementating guided inquiry: The influence towards students' activities and communication skill doi:10.1088/1742-6596/1156/1/012025	2019	J. Physics: Conf. Ser 2019, vol 1156

I. Publication on National Journal

No	Title	Year	Journal Name and Edition
1.	Penggunaan Lumpur Aktif Sebagai Material untuk Biosorpsi Pewarna Remazol	2014	J.Molekul, UNSOED Vol. 9 No 2
2	Pengaruh mordan sintesis dari limbah kaleng terhadap daya ikat dan laju lepas zat warna methyl violet oleh serat kain https://journal.uny.ac.id/index.php/saintek/issue/view/30	2014	Saintek Volume 19, no 1
3	Pengembangan Model Pembelajaran IPA Berbasis Problem-Based Learning di SMP https://journal.uny.ac.id/index.php/jk/issue/view/1091	2015	Jurnal kependidikan vol 45 no 1
4	Pengembangan dan implementasi perangkat pembelajaran IPA berbasis Inkuiri http://dx.doi.org/10.21831/jipi.v1i2.7492	2015	Jurnal Inovasi Pendidikan IPA, vol 2, no 1 hal 35-44,
5	Thermodynamic parameters on the sorption of phosphate ions by montmorillonite	2015	J. Sains Dasar, Volume 4 (1) hal

	https://journal.uny.ac.id/index.php/jsd/index		10
6	Selulosa bakteridari limbah air cucian beras dengan penambahan kitosan, gliserol, dan Nanopartikel perak http://ojs.jmolekul.com/ojs/index.php/jm/issue/view/20	2016	J. Molekul, Vol. 11 . No. 1. Hal 9-24
7	Bacterial cellulose from rice waste water and its composite which are deposited https://jurnal.uns.ac.id/alchemy/issue/view/100	2016	Alchemy, vol.12 no1 hal. 70-87
8	Kemudahan Biodegradasi Selulosa Bakteri dari Limbah Cucian Beras dengan Penambahan Gliserol, Kitosan, dan Nanopartikel Perak http://www.journal.uinjkt.ac.id/index.php/valensi/issue/view/415	2016	Jurnal Valensi, Vol 2, no 1, hal 35-44,
9	The evaluation instrument of analytical thinking and science process skill in chemistry subject https://journal.uny.ac.id/index.php/jk/article/view/8205	2017	Jurnal Kependidikan, Vol 1, no 1,hal 100-110,

J. Book Writing Experience

No	Year	Title	Number of pages	Publisher
1	2017	Instrumen Penilaian Terintegrasi	162	Valemba

K. Structural Position Experience

No	Position	Year	Description

L. Profesional Experience

No	Position	Year	Description
1	Penguji eksternal Desertasi Universitas Negeri Semarang	2015	Program Studi Manajemen pendidikan
2	Penguji eksternal Tesis S2, Universitas Pendidikan Sultan Idris	2016	Program studi Kimia
3	Penguji eksternal Tesis S2, Universitas Pendidikan Sultan Idris	2017	Program studi Kimia
4	Penguji eksternal Tesis S2, Universitas Pendidikan Sultan Idris	2018	Program studi Kimia
5	Konsultan kurikulum Pendidikan Kimia S1 Universitas Sanata Dharma	2018	Program Studi Pendidikan Kimia
6	Penguji Eksternal Desertasi Universitas sriwijaya	2019	Program studi ilmu lingkungan
7	Asesor sertifikasi Dosen	2016-now	

M. Profesional Organizational Membership

No	Professional Organizational Name	Year	Position
1.	Himpunan Kimia Indonesia		Member

Thus this biodata made in truth to use properly.

Yogyakarta, Februari 28th 2019

Prof. Dr. Endang Widjajanti LFX
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