## Module Handbook

Module Name:	Pharmaceutical Analysis II
Module Level:	Bachelor
Abbreviation, if applicable:	Lecture KIA307
riooreviation, if applicable.	Practical Work KIA308
Sub-heading, if applicable:	Truction Work Kirisoo
Courses included in the	
module, if applicable:	
Semester/term:	1 / Fourth year
Module coordinator(s):	Prof. Dr. Sudjarwo, MS
Lecturer(s):	Prof. Dr.M Yuwono., MS
Lecturer(s).	Prof. Dr.M Zaenuddin
	Prof. Dr.Sugijanto, MS
	Prof. Dr.Djoko Agus Purwanto., Msi
	Dr.Isnaeni., MS
	Dr. Riesta P., SSi, MSi
	Febri Annuryanti, S. Farm., M.Sc
	Prof. Dr. Noor Erma NS., MS
	Prof. Dr. Amiruddin Prawita
	M. Faris Adrianto, S. Farm ., M.Farm., Apt.
	Dr. Asri Darmawati, MS
T	Drs. Achmad Toto Poernomo, M.Si
Language:	Bahasa Indonesia
Classification within the	Compulsory Course/Elective Studies
curriculum:	T
Teaching format/class hours	Lecture
per week during the semester:	150 minutes lectures, 13 lecture classes/semester
	Practical Work
	200 minutes practical work classes, 13 practical work classes
Wadded.	/semester
Workload:	Lecture Total 32 hours a semester
	Practical Work
	Total 42 hours a semester
Credit Points:	
Credit Foliits.	Lecture 3
	Practical Work
	2
Requirements:	4
	Knowledge
Learning goal/competencies:	I
	<ul> <li>To understand the concept of pharmaceutical analysis and pharmaceutical analysis practice</li> </ul>
	Skills
	Discipline, honesty, and teamwork
	Competence
	<ul> <li>To understand and able to apply the concept of</li> </ul>
	qualitative and quantitative analysis of the
	ingredients, active ingredients, additives,
	contaminants in pharmaceutical preparations, foods,
	cosmetics and biological samples.

Content:	Lecture
Content.	This course will be given by lecture as discussion include:
	standardization, systematic analysis, sampling, testing
	medicinal raw materials, sample preparation, analysis of
	pharmaceutical preparations, the analysis of biological
	samples, analysis of food additives, analysis of cosmetic
	ingredients, analytical contamination, chemical, and analysis
	of microbiological contamination
	Practical Work
	The scope of the analysis of raw materials drug test, sample
	preparation, analysis of pharmaceutical preparations,
	biological sample analysis, analysis of food additives,
	cosmetic material analysis, analysis of chemical
	contaminants and microbiological contamination analysis
Study/exam achievements:	Lecture
Seady onain aoine voineires.	Student are considered to be competent and pass if at least
	get 50% of maximum mark of the exams based learning.
	gove on or manning mann or the channel cases remaining.
	Final score is calculated as follow:
	50% Exam I + 50% Exam II
	Final index is defined as follow:
	A : ≥ 75
	AB: 70 – 74,9
	B: 65 – 69,9
	BC: 60 – 64,9
	C: 55 – 59,9
	D: 40 – 54,9
	E: <40
	Practical Work
	Student are considered to be competent and pass if at least
	get 50% of maximum mark of the exams based learning.
	Final score is calculated as follow:
	50% Exam I + 50% Exam II
	Final index is defined as follow:
	A : ≥ 75
	AB: 70 – 74,9
	B: 65 – 69,9
	BC: 60 – 64,9
	C: 55 – 59,9
	D: 40 – 54,9
	E: <40
Forms of Media:	LCD projector, Internet access
Literature:	1. Chamberlain, J., 2015. Analysis of Drugs in Biological
	Fluids 3rd Edition. CRC Press.
	2. Convention, T.U.S.P., 2015. <i>USP 39</i> . 2nd ed.
	Twinbrooks Parkway.
	3. Denyer, S.P., Baird, R.M. & Hodges, N.A., 2010.
	Handbook of Microbiological Quaity Control. Taylor &
	Francis Routledge.

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	4. Horwitz, W., 2000. Official Methods of Analysis of
	AOAC International. 17th ed. AOAC International.
	5. RI, D., 1995. Farmakope Indonesia IV. 1st ed. DepKes
	RI.
	6. RI, D., 2016. Farmakope Indonesia V. 1st ed. DepKes
	RI.
	7. Smith, R.J. & Webb, M.L., 2007. Analysis of Drug
	Impurities. Blackwell Publishing.
	8. Yuwono, M. & Indrayanto, G., 2005. Valiadtion of
	Chromatographic Methods of Analysis. 32nd ed.
	Profiles of Drug Subtances, Exipients, and Related
	Methodology.
Notes:	