

## Module Handbook

<b>Module Name</b>	Drug and Cosmetics Analysis					
<b>Module Level</b>	Higher Diploma					
<b>Code, if applicable</b>	VKT749					
<b>The subtitle, if applicable</b>	-					
<b>Courses, if applicable</b>	-					
<b>Semester(s) in which the module is taught</b>	Odd semester					
<b>A person responsible for the module</b>	Bayu Wiyantoko, M.Sc.					
<b>Lecturer</b>	Kuntari, M.Sc.					
<b>Language</b>	Bahasa Indonesia					
<b>Relation to curriculum</b>	Elective					
<b>Type of teaching, contact hours</b>	Lecture (face to face teaching, independent study, structured activities/ structured assignments, and exam): 5.6 hours x 16 weeks per semester					
<b>Workload</b>	Total Workload	91 hours; 2 CU				
		Face to face teaching	Independent study	Structured assignments	Presentation	Exam
	Hours	24	22	22	12	11
<b>Credit Points</b>	2 CU/3.4 ECTS					
<b>Requirements according to the examination regulations</b>	75% minimum requirements of attendance					
<b>Recommended prerequisites</b>	-					
<b>Module objectives/intended learning outcomes</b>	<p>PLO 5: Able to contribute to solving problems in the scope of work.</p> <p>Subject LO:</p> <p>Students are able to apply principles of component analysis methods in drug and cosmetic samples</p> <p>Students are able to analyze the constituent components in samples of drugs and cosmetics both instrumentally and non-instrumentally</p> <p>Students are able to respond, solve and overcome problems related to the misuse of chemicals in drugs and cosmetics</p>					
<b>Content</b>	<ol style="list-style-type: none"> <li>1. Classification of drugs, dosage forms and cosmetics</li> <li>2. Physicochemical properties of drugs and cosmetics</li> <li>3. Chemical additives and hazardous materials in medicine and cosmetics</li> <li>4. Physicochemical testing methods for drugs and cosmetics</li> </ol>					
<b>Study and examination requirements and forms of</b>	Mid-term (30%) and final term exams (30%), presentation (20%), assignments (20%)					

<b>examination</b>	
<b>Media employed</b>	Google classroom, youtube, zoom meeting, google form, google doc
<b>Reading list</b>	<ol style="list-style-type: none"> <li>1. Day, R.A., dan Underwood, A.L., 2002, Analisis Kimia Kuantitatif, Edisi keenam, Erlangga, Jakarta.</li> <li>2. Draelos, Z.D. dan Thaman, L.A., 2006, Cosmetics Formulation of Skin Care Products, Taylor &amp; Francis</li> <li>3. Draelos, Z.D., 2010, Cosmetic Dermatology: Products and Procedures, Wiley-Blackwell</li> <li>4. Ganjdar, I.G., 2009, Kimia Farmasi Analisis, Pustaka Pelajar</li> <li>5. Khopkar, S.M., 2003, Konsep Dasar Kimia Analitik, UI Press, Jakarta.</li> <li>6. Sujadi, A.R., 2004, Analisis Obat dan Makanan, Pustaka Pelajar</li> <li>7. Rohman, A., 2007, Kimia Farmasi Analisis, Pustaka Pelajar, Yogyakarta.</li> <li>8. Watson, D.G., 2007, Analisis Farmasi, Penerbit Buku Kedokteran EGC</li> <li>9. Widana, G. A. B., 2014, Analisis Obat, Kosmetik dan Makanan, Graha Ilmu, Yogyakarta</li> </ol>