## Universitas Gadjah Mada



Faculty of Pharmacy

Doctoral Study Program in Pharmaceutical Science

## Advanced Herbal Medicine (3,34 ECTS/ 2 CSU)

Code/Status	FAS3220106/Compulsory
Module designation	Doctoral Study Program in Pharmaceutical Science
Semester(s) in which the module is taught	1
Person responsible for the	Prof. Dr. apt. Erna Prawita Setyowati, MSi.
module	Prof. Dr. apt. Subagus Wahyuono, MSc.
	Prof. Dr. rer. nat. apt. Triana Hertiani, MSi.
	Dr.rer.nat. apt. Yosi Bayu Murti, MSi.
	Dr. apt. Andayana Puspitasari, MSi.
	Dr. rer. nat. apt. Nanang Fakhrudin, MSi.
Language	Indonesian
Teaching methods	100 minutes/weekly and 14 weeks during the
	semester
Workload (incl. contact	100 minutes of in-class lectures
hours, self-study hours)	
Credit points	3,34 ECTS/2 CSU
Required and recommended	-
prerequisites for joining the	
module	
Module objectives/intended	Students demonstrate proficiency in understanding
learning outcomes	chemotypic phenomena, particularly in the isolation,
	elucidation, and standardization of natural medicine. They
	are adept at evaluating strategies pivotal to the discovery
	and development of such medicine. Furthermore, their
	expertise extends to mastering the principles of
	cutting-edge technology employed in the production of
	natural medicine, highlighting a comprehensive grasp of
	both the theoretical and technological facets of this field.
Content	This course discusses the development and application of
	natural medicine with pharmacognosy and phytochemical
	approaches. The field of study of this course includes
	aspects of drug discovery from natural ingredients and the
	development of natural drug preparations.
Examination forms	



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Study and examination	A-E. Exam or task in the form of a project/case based exam
requirements	100%
Reading list	<ul> <li>Main <ol> <li>Vogel, H.G., (Ed.), 2016, Drug Discovery and Evaluation, 4<sup>nd</sup> edition, Springer-Verlag, Berlin.</li> <li>Atta-ur-Rahman and Choudhary, M.I., 2005, Bioassay Techniques For Drug Development, Harwood Academic Publishers, Singapore.</li> <li>Dewick, PM, 2009, Medicinal Natural Product, A Biosynthetic Approach 3rd Edition, John Wiley &amp; Sons Ltd</li> <li>Steven M. Colegate and Russell J. Molyneux, 2007, Bioactive Natural Products : detection, isolation, and structural determination 2nd ed, CRC Press</li> <li>Related research paper</li> </ol></li></ul>
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