



**Universitas Gadjah Mada**

Faculty of Pharmacy

Doctoral Study Program in Pharmaceutical Science

### Pharmaceutical Management II ( 3,2 ECTS/ 2 CSU)

Code/Status	FAS3220123/Elective
Module designation	Doctoral Study Program in Pharmaceutical Science
Semester(s) in which the module is taught	1
Person responsible for the module	Prof. Dr. apt. Satibi, M.Si Dr. apt. Dwi Endarti, M.Si Dr. apt. Chairun Wiedyaningsih, M.Kes, M.Appsc Dr. apt. TN. Saifullah Sulaiman, M.Si
Language	Indonesian
Teaching methods	Case based learning, 100 minutes/weekly and 14 weeks during the semester
Workload (incl. contact hours, self-study hours)	100 minutes of in-class lectures
Credit points	3,2 ECTS/2 CSU
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	Students are trained to dissect the elements affecting drug availability, formulating effective solutions to address these challenges. They possess the capability to assess factors influencing drug pricing and broader health costs, subsequently devising strategies to regulate these expenses, including the selection of drugs for health benefit packages. Their expertise extends to executing interventions and evaluations concerning rational drug usage. Furthermore, they are adept at crafting innovative solutions, like the integration of the Internet of Things (IoT) in Good Distribution Practice (GDP) and overall pharmaceutical management.
Content	This course discusses and motivates students to conduct research in the field of pharmaceutical management, especially those related to the roles of drug policy, regulation, drug management and rational drug use.
Examination forms	



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Study and examination requirements	A-E. Project/case 60%. Presentation and case discussion 40%.
Reading list	<p><b>Main</b></p> <ol style="list-style-type: none"><li>1. Teitelbaum, Joel B, and Sara E Wilensky. 2013. <i>Essentials of Health Policy and Law</i>, 2nd edition. Burlington, MA: Jones and Bartlett Learning.</li><li>2. Quick, Jonathan D, Hogerzeil, Hans V, Rankin, James R, Dukes, Maurice Nelson Graham, Laing, Richard. et al. (1997). <i>Managing drug supply : the selection, procurement, distribution, and use of pharmaceuticals / Management Sciences for Health in collaboration with the World Health Organization</i>; editors : Jonathan D. Quick ... [et al.], 2nd ed., rev. and expanded. West Hartford, Connecticut : Kumarian Press.</li><li>3. World Health Organization. (2001). <i>Essential drugs and medicines policy : a selected listing of publications and documents</i>. World Health Organization.</li><li>4. Rascati KL. 2009, <i>Essentials of Pharmacoeconomics</i>, Lippincott Williams and Wilkins, Philadelphia</li></ol> <p><b>Additional</b></p> <ol style="list-style-type: none"><li>1. Blank RH, Burau V. <i>Comparative Health Policy</i>. 2nd edition. New York: Palgrave Macmillan. 2007. Reserve WA 540.1 B642 2007.</li><li>2. Erin R. Fox, Pharm.D., BCPS, FASHP, Milena M. McLaughlin, Pharm.D., M.Sc., BCPS-AQ ID, AAHIVP, ASHP guidelines on managing drug product shortages, <i>American Journal of Health-System Pharmacy</i>, Volume 75, Issue 21, 1 November 2018, Pages 1742–1750</li><li>3. Carroll, N.V., 2007. <i>Financial management for pharmacists: A decision-making approach</i>. Lippincott Williams &amp; Wilkins.</li></ol>
Date of last amendment	<b>Aug 1, 2023</b>