ADVANCED BIOPHARMACEUTICS

Module designation	Advanced Biopharmaceutics
Semester(s) in which the	1
module is taught	1
Person responsible for the	1. Dr. apt. Budi Suprapti, M.Si.(Course Coordinator)
module	2. Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D.
module	3. Prof. Dra. apt. Esti Hendradi, M.Si., Ph.D.
	Bahasa Indonesia
Language Relation to curriculum	Compulsory / elective / specialisation
Teaching methods	lecture, discussion, assignment
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: Contact hours (structured activities.): 90,67 hours Private study including independent learning activites: 90,67 hours
Credit points	2 SCU / 6 ECTS
Required and recommended	NA
prerequisites for joining the	NA
module	
Module objectives/intended	Students are:
learning outcomes	LO1: Able to realize excellence based on religious morals
	(excellence with morality), able to work together, and
	show a responsible attitude to work in their field of
	expertise independently
	LO2: Able to internalize the spirit of independence,
	struggle, and entrepreneurship
	LO3: Able to develop and build logical-critical-systematic-
	creative thinking and scientific conceptions through
	scientific research, design creation, or artworks of science
	and technology that pays attention to and applies
	humanities values through an interdisciplinary or
	multidisciplinary approach in the form of a thesis or other
	equivalent forms.
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	LO4: Able to develop a pharmaceutical professional performance with analytical acumen in solving pharmaceutical problems and managing research in the pharmaceutical field related to national and global systems and policies, both inter and inter-disciplinary approaches.
	LO5: Able to access and review information through an Information and Communication Technology (ICT) system, decide on a specific subject of study, maintain the feasibility
	of implementing research designs, conduct research,
	analyze data, conclude research results comprehensively,
	and create strategic issues based on the study that reflect
	the latest updates in the field of pharmaceutical sciences,
	and communicate them in the media and scientific forums
	at the national and international level through an interdisciplinary or multidisciplinary approach in the form of
	a thesis or other equivalent forms.
	LO14: Able to build drug management systems from active
	pharmaceutical ingredients to finished products that are
	ready for therapeutic uses.

Advanced Biopharmaceuticals course describes molecular absorption and transport of active substances through cell membranes, bioavailability of drug in systemic blood circulation, bioequivalence of biosimilar drugs, development of protein-based drugs and endogenous compounds terpenoids.
Mid term exam and final exam
the final grade in the module is composed of 45% mid term exam, 45% final exam , 10% in-class participation and soft- skills assessment. Students must have a final grade of 70% or higher to pass
 Shargel L, Wu-Pong S. Yu ABC, 2012, Applied Biopharmaceutics and Pharmacokinetics, 6 edition, Mc Graw Hill Education. Ritschel WA Kearns GL, 2009, Handbook of Basic Pharmacokinetics 6th edition, Washington: American Pharmacists Association. Aldeel A, 2003, Absorption and drug development solubility, permeability and charge state, New Jersey: A John Wiley and Sons. Gibaldi, M, 2005, Biopharmaceutics and clinical