

Module Handbook

Module Name :	Biopharmaceutics
Module Level :	Bachelor
Abbreviation, if applicable :	FAF301
Sub-heading, if applicable :	
Courses included in the module, if applicable :	
Semester / term :	1 / Third year
Module coordinator(s) :	Drs. Didik Hasmono, Apt., MS.
Lecturer(s) :	Drs. Didik Hasmono, Apt., MS.
	Dr. Suharjono, Apt.,MS
	Dr. Budi Suprapti, MSi
	Dr. Yulistiani, Apt.,M.Si
	Drs.Sumarno, Apt.,Sp.FRS
	Dra. Aniek Setiya Budiatin, Apt., M.Si
	Dra. Toetik Ariyani, Apt., M.Si.
	Mahardian Rahmadi, S.Si, MSc, Ph.D
	Dewi Wara Shinta, S.Farm., M.Farm.Klin., Apt
Language :	Bahasa Indonesia
Classification within the curriculum :	Compulsory Course / Elective Studies
Teaching format / class hours per week during the semester :	100 minutes lectures, 13 lecture classes/semester
Workload	Total 22 hours a semester
Cedit Points :	2
Requirements :	
Learning goals/competencies :	<p>Knowledge</p> <ul style="list-style-type: none"> - To understand the concept of biopharmacy. <p>Skills</p> <ul style="list-style-type: none"> - Diciplin and attendance <p>Competence</p> <ul style="list-style-type: none"> - To understand and able to apply the concept of drug physical-chemistry. - To understand and able to apply the concept of route administration of drug. - To understand and able to apply the concept of drug metabolism mechanism of absorption. - To understand and able to apply concept of biopharmacy regarding to drug design and pharmaceutical care.
Content :	Introduction (the scientific concept and its benefits), the drug release from the dosage form, release of drugs and the use, bio-availability and bioequivalence, biopharmaceutics analysis, presentation and methods of sampling biological sample, the application of the design biopharmaceutics pharmaceutical and pharmaceutical services.
Study/exam achievements :	Student are considered to be competent and pass if at least get 50% of maximum mark of the exams based learning.

	<p>Final score is calculated as follow : 50% Exam I + 50% Exam II</p> <p>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</p>
Forms of Media :	LCD, whiteboard.
Literature :	<ol style="list-style-type: none"> 1. Shargel L and Andrew BC, 2005, <i>Applied Biopharmaceutics and Pharmacokinetics</i> Appleton Century Crofts, Conecticut. 2. Fasich dan Suprapti B. 2012. Terjemahan : Shargel L and Andrew BC, 2005, <i>Applied Biopharmaceutics and Pharmacokinetics</i> Appleton Century Crofts, Conecticut, Airlangga University Press. 3. Rowland M and Tozer TN. 2011. <i>Clinical Pharmacokinetics and Pharmacodynamics : Concepts and Applications</i>. 4th edition. Lippincott. 4. Gibaldi, M., 1989, <i>Biopharmaceutics and clinical Pharmacokinetic</i>, 4th edition, Lea Febiger, Philadelphia. 5. Ritschel, WA., 1974, <i>Laboratory manual of biopharmaceutics and Pharmacokinetics</i>.
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