

### Module Handbook

Module Name:	Pharmacokinetics
Module Level:	Bachelor
Abbreviation, if applicable:	Lecture FAK401 Practical Work FAK402
Sub-heading, if applicable:	
Courses included in the module, if applicable:	
Semester/term:	2 / Third year
Module coordinator(s):	Dr. Budi Suprapti, Apt. MSi
Lecturer(s):	Dr. Budi Suprapti, Apt. MSi Drs. Didik Hasmono, MS, Apt. Dr. Suharjono, MS, Apt. Dra. Yulistiani, MSi., Apt Zamrotul Izzah, S.Farm., MSc., Apt Samirah, SSI, Apt.Sp.FRS Wenny Putri N., S.Farm., Apt., Sp.FRS Dr. Suharjono, MS., Apt. Dewi Wara Shinta, S.Farm, M.Farm-Klin., Apt. Khoirotin Nisak, S.Farm, M.Farm., Apt Drs. Sumarno, Apt., Sp.FRS. Pharmasinta Putri H, S.Farm., Apt. Bambang S.Z, S.Si, Apt, M.Clin.Pharm Junaidi Khotib, SSI, Apt., MKes., PhD Dra. Tutik Ariani, Apt, M.Si Mahardian R., S.Si, Apt., MSc.PhD Dra. Aniek Setiya Budiatin, MSi., Apt. Chrismawan Ardianto., S.Farm., M.Sc., Ph.D., Apt
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course/ <del>Elective Studies</del>
Teaching format/class hours per week during the semester:	Lecture 100 minutes lectures, 13 lecture classes/semester Practical Work 200 minutes practical work classes, 13 practical work classes /semester
Workload:	Lecture Total 22 hours a semester Practical Work Total 43 hours a semester
Credit Points:	Lecture 2 Practical Work 2
Requirements:	Biopharmaceutics (FAF301)
Learning goal/competencies:	Knowledge – To understand the concept of pharmacokinetics. Skills – Participation, effective communication, critical thinking

	<p>Competence</p> <ul style="list-style-type: none"> <li>- To be able to understand and explain drug's transformation (absorption, distribution, metabolism, elimination / ADME) inside the human body that related to therapeutic aspect of drug</li> </ul>
Content:	<p>Lecture</p> <p>Introduction and basic principles of pharmacokinetics (mathematics concept and compartmental model), absorption kinetics, distribution kinetics, metabolism kinetics, elimination kinetics, multiple dosing kinetics, and pharmacokinetics concept application</p>
	<p>Practical Work</p> <p>Introduction and basic principles of pharmacokinetics (mathematics concept and compartmental model), absorption kinetics, distribution kinetics, metabolism kinetics, elimination kinetics, multiple dosing kinetics, and pharmacokinetics concept application</p>
Study/exam achievements:	<p>Lecture</p> <p>Student are considered to be competent and pass if at least get 50% of maximum mark of the exams based learning.</p> <p>Final score (NA) is calculated as follow : 50% Exam I + 50% Exam II</p> <p>Final index is defined as follow :</p> <p>A : <math>100 &gt; NA &gt; 75</math>  AB : <math>75 &gt; NA &gt; 70</math>  B : <math>70 &gt; NA &gt; 65</math>  BC : <math>65 &gt; NA &gt; 60</math>  C : <math>60 &gt; NA &gt; 55</math>  D : <math>55 &gt; NA &gt; 50</math>  E : <math>50 &lt; NA</math></p>
	<p>Practical Work</p> <p>Student are considered to be competent and pass if at least get 50% of maximum mark of the exams based learning.</p> <p>Final score (NA) is calculated as follow : 50% Exam I + 50% Exam II</p> <p>Final index is defined as follow :</p> <p>A : <math>100 &gt; NA &gt; 75</math>  AB : <math>75 &gt; NA &gt; 70</math>  B : <math>70 &gt; NA &gt; 65</math>  BC : <math>65 &gt; NA &gt; 60</math>  C : <math>60 &gt; NA &gt; 55</math>  D : <math>55 &gt; NA &gt; 50</math>  E : <math>50 &lt; NA</math></p>

Forms of Media:	LCD projector, whiteboard, laboratory
Literature:	1. Shargel L and Andrew BC, 2005, <i>Applied Biopharmaceutics and Pharmacokinetics</i> Appleton Century Crofts, Connecticut.
	2. Notari RE, De Young JL., Anderson RC., 1975, <i>Biopharmaceutics and Pharmacokinetics</i> , 2 <sup>nd</sup> edition, Marcel Dekker, New York.
	3. Rowland M & Tozer T.N., 2011, <i>Clinical Pharmacokinetics and Pharmacodynamics, Concept and Application</i> , Wolters Kluwer, Philadelphia.
	4. Gibaldi, M., 1989, <i>Biopharmaceutics and clinical Pharmacokinetic</i> , 4 <sup>th</sup> edition, Lea Febiger, Philadelphia.
Notes:	