

Module Handbook

Module Name:	Liquid Preparation Pharmaceutics
Module Level:	Bachelor
Abbreviation, if applicable:	Lecture FAF203 Practical Work FAF208
Sub-heading, if applicable:	
Courses included in the module, if applicable:	
Semester/term:	1 / Third year
Module coordinator(s):	Dra. Tristiana Erawati, MSi., Apt
Lecturer(s):	Prof. Dr. Widji Soeratri, DEA, Apt Dra. Esti Hendradi, MSi., PhD., Apt Dra. Tristiana Erawati, MSi., Apt Dra. Tutiek Purwanti, MSi., Apt Dra. Noorma Rosita, MSi., Apt Dewi Melani Haryadi, Ssi, M.Phil., PhD., Apt
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course/ Elective Studies
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:	Prescription I, Prescription II (Course and Practice), Prescription III, Physical Pharmacy Class and Physical Pharmacy Practice. Practice Must be taken on the same semester of Pharmaceutics Liquids Dosage form or before it.
Learning goal/competencies:	Knowledge – To understand the concept of Pharmaceutics Liquid Dosage Forms Course and Pharmaceutics Liquid Dosage Forms Practice. Skills – Disciplin, participatif, efektif komunikasi, and critical thinking. Competence – To understand and able to apply the concept of planning product liquid dosage form non sterile by considering efficacy, acceptability, stability and safety of drug.

Content:	<p>Lecture Pharmaceutical preparation courses providing material liquid which includes, praformulasi, formulations, manufacturing processes, evaluation and packaging of non-sterile liquid preparation (solution, suspension, Dry syrups, emulsions and development).</p> <p>Practical Work In this lab conducted stages: planning (making of the journal includes praformulation, planning: formula, manufacture, production tools, evaluation, and packaging), group discussions, optimization formula, preparation of selected, evaluation, packaging and seminars results of some types of dosage liquid non-sterile (preparation solutions, suspensions and dry syrups).</p>
Study/exam achievements:	<p>Lecture 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 is calculated as follow : 50% Exam I + 50% Exam II, include soft skill score 10 % at each once.</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> <p>Practical Work 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 is calculated as follow : 50% Daily score + 30% Exam + 20% seminar (include soft skill score 10 % at daily score and seminar)</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, white board
Literature:	1. Farmakope Indonesia Ed. IV, 1995
	2. USP new edition
	3. BP new edition
	4. Martin A, Swarbrick J., Camarata A, Physical Pharmacy, 3th Ed.; Lea & Febiger; Philadelphia.

	5. Aulton ME;(Ed), Pharmaceutics The Science of Dosage Form Design, Churchill Livingstone Edinburg London, Melbourne & N.Y.
	6. Florence A.T., Attwood D., 1988, Physicochemical Principle of Pharmacy. The Macmillan Press Ltd., 2 nd Ed.
	7. Lachman I., The Theory and Practice of Industrial Pharmacy
	8. Leiberman H.A., Riegel M.M.,Banker G.S, Pharmaceutical Dosage Forms: Disperse Systems, 2 nd Ed; ., Vol 1,2,3 ; Marcell Dekker Inc, N.Y. & Brussel
	9. Marmion D.M., 1984, Hanbook of US, Colorants for Food, Drugs and Cosmetics, 2 nd Ed, John Wiley & Sons; New York
	10. Rowe R.C, Sheskey P.J., Owen S.C., 2006, Handbook of Pharmaceutical Excipients, 5 th Ed.,
	11. Sinko, P.J., Yashveer Singh, 2011, Martin's Physical Pharmacy and Pharmaceutical Sciences, Wolters Kluwer, London
Notes:	