Module Handbook

Module Name:	Sterile Preparation Pharmaceutics
Module Level:	Bachelor
Abbreviation, if applicable:	Lecture FAF212
Trooreviation, if applicable.	Practical Work FAF206
Sub-heading, if applicable:	Tractical Work FAI 200
Courses included in the	
module, if applicable:	
Semester/term:	1 / Fourth year
Module coordinator(s):	Dr. Sugiyartono, M.S., Apt.
Lecturer(s):	Dr. Sugiyartono, M.S., Apt.
Lecturer(s).	Dr. Retno Sari, M.Sc., Apt.
	Dr. Dewi Isadiartuti, M.Si., Apt.
	Dini Retnowati, S.Farm., M.Si., Apt.
Languaga	Bahasa Indonesia
Language: Classification within the	Compulsory Course/Elective Studies
curriculum:	Computsory Course/ Elective Studies
	Lecture
Teaching format/class hours per week during the semester:	100 minutes lectures, 13 lecture classes/semester
per week during the semester.	Practical Work
	200 minutes practical work classes, 13 practical work classes /semester
Workload:	Lecture
Workload.	Total 22 hours a semester
	Practical Work
	Total 43 hours a semester
Credit Points:	Lecture
Credit I ollits.	2
	Practical Work
	2
Requirements:	Microbiology-Immunology-Parasitology (BIM204),
rtequirements.	Solid Preparation Pharmaceutics (FAF202) and Practical
	Work of Solid Preparation Pharmaceutics (FAF207),
	Liquid Preparation Pharmaceutics (FAF203) and Practical
	Work of Liquid Preparation Pharmaceutics (FAF208)
	Semisolid Preparation Pharmaceutics (FAF211) and
	Practical Work of Semisolid Preparation Pharmaceutics
	(FAF209)
Learning goal/competencies:	Knowledge
	To understand the concept of Pharmaceutics (Sterile)
	Dosage Forms)
	Skills
	 Discipline, teamwork, confidence, and
	communication
	Competence
	 Planning formulation and producing a safe,
	effective, and good quality of parenteral and
	ophthalmic dosage forms on laboratory scale
	considering the preformulation, principle of
	formulation, and define its method of sterilization
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	and evaluation
Content:	Lecture
	Microbiological aspect for sterilization process, types of
	sterilization method and aseptical techniques, preformulation
	and formulation of sterile dosage forms, disinfection,
	packaging and evaluation of sterile dosage forms.
	Practical Work
	Planning formulation of single dose parenteral dosage
	forms, multi dose parenteral dosage forms and ophthalmic
	dosage forms considering preformulation aspect, deciding
	the sterilization method.
	Making and packaging single dose parenteral dosage forms,
	multi dose parenteral dosage forms and ophthalmic dosage
	forms.
~	Evaluating the sterile dosage forms.
Study/exam achievements:	Lecture
	Student are considered to be competent and pass if at least
	get 50% of maximum mark of the exams based learning.
	Final score is calculated as follow:
	50% Exam I + 50% Exam II
	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
	Practical Work
	Student are considered to be competent and pass if at least
	get 50% of maximum mark of the exams based learning.
	Final score is calculated as follow:
	50% Laboratory Report + 50% Exam II
	30% Laboratory Report + 30% Lizamin
	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
	D: 40 – 34,9 E: <40
Forms of Madia:	
Forms of Media:	LCD projector, OHP 1 Salvatora Turco Pobert F King 1994 Starila Dosaga
Literature:	1. Salvatore Turco, Robert E. King. 1994. <i>Sterile Dosage Form, 4th Edition</i> . Lea and Febiger, Philadelphia.
	2. Cooper and Gun's. 1975. <i>Dispensing for Pharmaceutical</i>
	Students 12th ed.
	3. Seymor E Block. 1977. Desinfection, Sterilisation and
	Preservation, 2nd ed. Lea and Febiger, Philadelphia.
	1 reservation, 2nd ed. Lea and reviger, rimaderphia.

	4. Murray S, Cooper (editor). 1972. <i>Quality Control in the Pharmaceutical Industry, Vol 1 dan 2</i> . Academic Press.
	5. Kenneth E Avis. 1993. Pharmaceutical Dosage Forms,
	Parenteral Medications Vol 1. Marcell Dekker, New
	York.
	10111
	6. Anonim. 1995. Farmakope Indonesia edisi IV. Depkes
	RI.
	7. Akers M.J 1985. Parenteral Quality Control.
	8. Anonim. 1995. The Pharmaceutical Codex.
	Pharmaceutical Press.
	9. Martin E.W. Dispensing of Medication. Mack Publishing
	Company.
	10. MJ Akers. 2010. Sterile Drug Products, Formulation,
	Packaging, Manufacture and Quality. Informa
	healthcare.
	11. Anonim. 2012. <i>CPOB</i> . BPOM.
	12. Linda Felton (Ed). 2013. Essentials of Pharmaceutics.
	Pharmaceutical Press.
	13. Michael E, Aulton. 2013. Aulton's Pharmaceutics, 4th
	ed : The Design and Manufacture of Medicines.
	Churchill Livingstone, New York.
	14. Loyd V. Allen, Jr 2012. Remington: The Science and
	Practice of Pharmacy 21st ed. Pharmaceutical Press,
	Philadelphia.
	15. BPOM. 2015. Farmakope Indonesia Edisi V. Depkes RI.
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