Module Handbook

Module Name:	Solid Preparation Pharmaceutics
Module Level:	Bachelor
Abbreviation, if applicable:	Lecture FAF202
	Practical Work FAF207
Sub-heading, if applicable:	
Courses included in the	
module, if applicable:	
Semester/term:	1 / Third year
Module coordinator(s):	Dr. Dwi Setyawan, Apt
Lecturer(s):	Dr.rer.nat ML. Ardhani L, Apt
Lecturer(s).	Helmy Yusuf, PhD., Apt
	Dr. Dwi Setyawan, Apt
Language:	Bahasa Indonesia
Classification within the	Compulsory Course/Elective Studies
curriculum:	
Teaching format/class hours	Lecture
per week during the semester:	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:	Physical Pharmacy (FAT201) and Practical Work of
	Physical Pharmacy (FAT206).
Learning goal/competencies:	Knowledge
	 To understand the concept of pharmaceutics solid
	dosage form and Pharmaceutics solid dosage form
	practice.
	Skills
	– Disciplin, emphaty, communication, honest,
	teamwork, accuracy, leadership, making a right
	decission and initiative.
	Competence
	- To understand and able to apply the concept of
	making a pharmaceutics solid dosage form including
	unit process in production such us resize particle,
	mixing, granulating, drying and compressing, also
	formulation and evaluation of tablet, capsule, coated
	tablet, sustained release.
	 To understand and able to apply the concept of how to design formulas manufacturing processes in
	to design formulas, manufacturing processes, in-
	process testing, quality testing of finished products,
	how to resolve issues that arise during the

	manufacturing process, and packaging of solid
Contonto	dosage.
Content:	Lecture Dearmagnutics Solid Dosage Form discuss about the
	Pharmaceutics Solid Dosage Form discuss about the
	concept of making a pharmaceutics solid dosage form
	including unit process in production such us resize particle,
	mixing, granulating, drying and compressing, also
	formulation and evaluation of tablet, capsule, coated tablet, sustained release.
	Practical Work
	Pharmaceutics Solid Dosage Form discuss about the concept of making a pharmaceutics solid dosage form
	including unit process in production such us resize particle,
	mixing, granulating, drying and compressing, also
	formulation and evaluation of tablet, capsule, coated tablet, sustained release.
<u>Study/argue ashionanta</u>	
Study/exam achievements:	Lecture Student are considered to be compatent and pass if at least
	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
	30% Exam 1 + 30% Exam n
	Final index is defined as follow :
	A : \geq 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.
	get 50% of maximum mark of the exams based learning.
	Final score is calculated as follow :
	45% Exam I + $45%$ Exam II + $10%$ soft skill
	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
Forms of Media:	Journal, experimental tools, experimental materials.
Literature:	1. J.T Carstensen, Ping Ching Can. 1977. Flow Rate and
	Repose Angles of Wet Process Granulation .
	J.F Halli.Sci., 00, p.1233-1326/1777
	J.Pharm.Sci., 66, p.1235-1328/1977 2. D.Ganderton. 1968. Unit Processes in Pharmacy.

	1
	3. W.A.Hanson. 1991. Handbook of Dissolution Testing.
	2nd Edition/ Aster Publishing Corp./1991
	4. L.Lachman. 1986. The Theory and Practice of Industrial
	Pharmacy. 3 rd Edition/ Lea & Febiger/1986
	5. H.A. Lieberman, L.Lachman . 1981. Pharmaceutical
	Dosage Forms; Tablets. Volume 1, 2, 3/ Marcell Dekker
	Inc./1981
	 K. Ridgway. 1987. Hard Capsules. The Pharmaceutical Press/1987
	7. H. Sucker. 1982. Test Methods for Granulates. Pharm.
	Ind., 44, Nr. 3, p. 312 –316./1982
	8. J.T. Wells. 1988. Pharmaceutical Preformulation; The
	Physicochemical Properties of Drug Substances. Ellis
	Horwood Ltd./1988
	9. S.J Carter. 1973. Cooper's and Gunn Tutorial Pharmacy.
	Pitman Medical /1973
	10. J.N Staniforth. 1982. Advances in Powder Mixing and
	Segregation in relation to pharmaceutical Process. Int. J.
	Pharm. Tech. Prod. Mfr,3 (Supl) / 1982
	11. J.E Rees. 1975. Mixing as a criterion in Process
	Development. Manufacturing Chemist & Aerosol tcews
	(12)/1975
	12. Diliph M Parikh. 1997. Handbook of Pharmaceutical
	Granulation. Marcel Dekker/1997
	13. Michael E. Aulton. 1988. Pharmaceutical : The Science
	of Dosage Forms. Churchill Livingstone/1988
	14. G.S Banker, C.T Rhodes. 2002. Modern Pharmaceutics.
	Marcel Dekker/2002
	15. James Swarbrick. 2007. Encyclopedia of Pharmaceutical
	Technology. Informa Healthcare
	16. J. Heler. 1987. Use of Polymers in Controlled Release of
	Active AgentControlled Drug Delivery Fundamentals
	and Application. 17. H.W Hui, J.R Robinson. 1987. Design and Fabrication of
	Oral Controlled Release Drug Delivery System in
	Controlled Drug Delivery Fundamentals and
	Application.
	18. Graham Cole. 1995. Pharmaceutical Coating
	Technology. Taylor and Francis
	19. James W McGinity. 1989. Aqueous Polymeric Coating
	for Pharmaceutical Dosage Forms. Marcel Dekker
	20. United States Pharmacopoeial Convention. 2009. USP 32
	NF 27. United States Pharmacopoeial Convention
	21. Departemen Kesehatan Republik Indonesia. 2015.
	Farmakope Indonesia V. Departemen Kesehatan RI
	22. J.T Carstensen, Ping Ching Can. 1977. Flow Rate and
	Repose Angles of Wet Process Granulation .
	J.Pharm.Sci., 66, p.1235-1328/1977
Notes:	