Module Handbook

Pharmacognosy
Bachelor
Lecture FAB302
Practical Work FAB305
4 / Second year
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Prof. Dr. Sukardiman, MS
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Rice Disi Oktarina, S.Farm, MFarm.
Bahasa Indonesia
Compulsory Course
companies y course
Lecture
100 minutes lectures, 13 lecture classes/semester
Practical Work
100 minutes practical work classes, 13 practical work classes
/semester
Lecture
Total 22 hours a semester
Practical Work
Total 22 hours a semester
Lecture
2
Practical Work
Practical Work 1
1
1 Knowledge
Knowledge To understand the concept of pharmacognosy and basic concept

To understand the concept of macroscopic (organoleptic) and microscopic analyses and determine the chemical content of crude drugs traditional medicine preparations.
Skills - To demonstrate an ability to creativity and coorperative. - To demonstrate an ability to active learning (discuss new information) for upgrading knowledge. - To demonstrate an ability to critical thinking and comprehensive and scientifically.
Competence
To have an ability to apply the concept of identification of herbal drugs material based on macrocopic and microscopic identification
Lecture Introduction to pharmacognosy, classification of herbal drug materials based on active compounds: volatile oils, alkaloids, carbohydrate, glicosyde, lipid, protein. Herbal material for antibiotic, nutraceutical and toxic herbal material. Marine organisms as source for drug material.
Practical Work Macroscopic and microscopic examination of herbal drug material such as: starch, folium, cortex, radix, rhizome flos, and fructus according to reference book of Materia Medika Indonesia and others. Identification of herbal drug material in tradisional medicine product by using histochemical and thin layer chromatography methods
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 mark 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 achieve
	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
Forms of Media:	LCD projector, Microscope, laboratory glasswares
Literature:	1. Anonim, Materia Medika Indonesia, Dep Kes RI, Volume I-
	VI.
	2. Anonim, 2007. Farmakope Herbal Indonesia, 1st Ed, Jakarta:
	Departemen Kesehatan Republik Indonesia.
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	3. Anonim, 2011. Farmakope Herbal Indonesia, Suplement II,
	Jakarta: Departemen Kesehatan Republik Indonesia.
	4. Trease and Evans, 2000. <i>Pharmacognosy</i> , 15 Ed. W.C Evans
	(Editor), London: Saunders (Elsevier).
	5. Sukardiman, Mangestuti, Bambang Prajogo EW.,Abdul
	Rahman; 2014 : Farmakognosi Jilid 1; Airlangga University
	Press
	6. Tyler, V.E, Brady, L.R dan Robbers, J.E, 1988,
	Pharmacognosy, 9 th ed, Lea & Febiger, Philadelphia, US, p
	57-76
	7. Samuelsson, G., 1999, Drugs of Natural Origin, A Textbook of
	Pharmacognosy, 4 th revised edition, Apotekarsocieteten,
	Swedish Pharmaceutical Press, Stockholm, Sweden
	8. DS Bhakuni , DS Rawat, 2005, Bioactive Marine Natural
	Products, Springer, New Delhi, India
Notes:	Students wish to enroll in this course should have taken botany
	pharmacy I and botany pharmacy II