

Module Handbook

Module Name:	Pharmacognosy
Module Level:	Bachelor
Abbreviation, if applicable:	Lecture FAB302 Practical Work FAB305
Sub-heading, if applicable:	
Courses included in the module, if applicable:	
Semester/term:	2 / Second year
Module coordinator(s):	Prof. Dr. Sukardiman, MS
Lecturer(s):	Lusiana Arifianti, S. Farm., M. Farm Prof. Dr. Sukardiman, MS Prof. Dr. Bambang Prayogo EW. MS Prof. Dr. Hj. Mangestuti Agil, MS Dr. Aty Widyawaruyanti, M.Si Dr. Wiwied Ekasari, M.Si Drs. Abdul Rahman, Msi Drs. Herra Studiawan, MS Dra. Rakhmawati, MS Lusiana Arifianti, S.Farm., M. Farm Suciati, S.Si, M.Phil., PhD. Neny Purwitasari, S.Farm.,MSc Rice Disi Oktarina, S.Farm
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 100 minutes practical work classes, 13 practical work classes /semester
Workload:	Lecture Total 22 hours a semester Practical Work Total 22 hours a semester
Credit Points:	Lecture 2 Practical Work 1
Requirements:	
Learning goal/competencies:	Knowledge <ul style="list-style-type: none"> – To understand the concept of pharmacognosy and basic concept and principles in etnofarmasi, safety and efficacy of botanicals and botanicals classification based of active ingredients, nutraceutical and marine biota. – To understand the concept of macroscopically and microscopically analyze and determine the chemical content of crude drugs traditional medicine preparations.

	<p>Skills</p> <ul style="list-style-type: none"> - To demonstrate an ability to creativity and cooperate. - To demonstrate an ability to active learning (discuss new information) for upgrading knowledge. - To demonstrate an ability to critical thinking and comprehensive and scientifically. - To demonstrate an ability to creativity and cooperate. <p>Competence</p> <ul style="list-style-type: none"> - To have an ability to apply the concept of identify herbal drugs having therapeutic value. - To have an ability to apply the concept of new product development from natural sources. - To have an ability to apply the concept of practical aspects of standardization and screening of herbal formulations to ensure safety and efficacy.
<p>Content:</p>	<p>Lecture Development of etnofarmasi; introduction, definitions: crude drug, advanced crude drug, allopathic medicine, alternative medicine; classification, indigenous and cultivated plants, factors involved in production of plants, official drugs, monographs. Introduction and definition: nutraceutical (benefits, safety and examples)</p> <p>Practical Work Identification macroscopic and microscopic examination of natural products example: starch, folium, cortex, radix, flos, fructus and herbaceous; analysis of crude drugs according to reference book of Materia Medika Indonesia and others. Identification screening of chemical constituents with methods of histochemistry and thin layer chromatography</p>
<p>Study/exam achievements:</p>	<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 (NA) is calculated as follow : 50% Exam I + 50% Exam II</p> <p>Final index is defined as follow : A : 100 > NA > 75 AB : 75 > NA > 70 B : 70 > NA > 65 BC : 65 > NA > 60 C : 60 > NA > 55 D : 55 > NA > 50 E : 50 < NA</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 (NA) is calculated as follow : 50% Exam I + 50% Exam II</p>

	<p>Final index is defined as follow :</p> <p>A : $100 > NA > 75$ AB : $75 > NA > 70$ B : $70 > NA > 65$ BC : $65 > NA > 60$ C : $60 > NA > 55$ D : $55 > NA > 50$ E : $50 < NA$</p>
Forms of Media:	Microscope, material and equipment laboratory
Literature:	<ol style="list-style-type: none"> 1. Anonim, <i>Materia Medika Indonesia</i>, Dep Kes RI, Jilid I-VI. 2. Anonim, 2007. <i>Farmakope Herbal Indonesia</i>, Edisi 1, Jakarta: Departemen Kesehatan Republik Indonesia. 3. Anonim, 2011. <i>Farmakope Herbal Indonesia</i>, Suplemen II, Jakarta: Departemen Kesehatan Republik Indonesia. 4. Trease and Evans, 2000. <i>Pharmacognosy</i>, 15th Ed. W.C Evans (Editor), London: Saunders (Elsevier).
Notes:	The course is more classification of plants based as compared to pharmaceutical botany II.