



UNIVERSITI TEKNOLOGI MARA

AGA102: ETHNO HERBAL PLANTS

Course Name (English)	ETHNO HERBAL PLANTS APPROVED
Course Code	AGA102
MQF Credit	3
Course Description	This course will introduce students to the basic ethno medicine concept and some basic theories that cover the use of herbs, the collection of ethnic information on the approach and practice of local medicinal herbs based on indigenous knowledge, identification of herbs in terms of their botanical features, critical evaluation and sources of information on the evidence for the medicinal/ healthcare use of herbs.
Transferable Skills	Knowledge gained from lectures via discussions and assignment with lecturers. Practical skills obtained from experience in Laboratory Work and Field work.
Teaching Methodologies	Lectures, Blended Learning, Lab Work
CLO	CLO1 Describe the importance of ethno herbal plants and their fundamental concepts to medicinal and pharmaceutical development CLO2 Apply the principle of identifying herbal plants and understand their medicinal and pharmaceutical uses from traditional knowledge. CLO3 Outline laboratory work in documenting traditional knowledge on ethno herbal plants
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction to Ethno medicine 1.1) a. Definition and concept of ethnomedicine 1.2) b. History/development of ethnomedicine/ethno-herbs 1.3) c. Importance and uses of ethno-herbs in Malaysia	
2. Herbal Plant Identification 2.1) a. Morphology and botany of significant herbal plant in Malaysia (Source: Jabatan Perhutanan Semenanjung Malaysia) 2.2) i. Hempedu Bumi 2.3) ii. Ekor Kucing 2.4) iii. Kacip Fatimah 2.5) iv. Lidah Buaya 2.6) v. Pegaga 2.7) vi. Senduduk 2.8) vii. Kunyit 2.9) viii. Lengkuas 2.10) b. Location, climate, topography of herbal plant	
3. Phytochemical and Pharmacological Characteristics of Herbal Plants 3.1) a. Phytochemical and Pharmacological of plants for health-related uses 3.2) i. Hempedu Bumi 3.3) ii. Ekor Kucing 3.4) iii. Kacip Fatimah 3.5) iv. Lidah Buaya 3.6) v. Pegaga 3.7) vi. Senduduk 3.8) vii. Kunyit 3.9) viii. Lengkuas 3.10) b. Common/traditional methods of consumption 3.11) c. Potential use and processing for commercial marketing	
4. Documentation of Traditional Knowledge 4.1) a. Importance of documentation and records for herbs for safe and efficient use	

5. Ethical Issues In Traditional Medicine 5.1) a. Do and don't in using traditional herbs 5.2) b. Establishing a protocol of using herbs for efficient use and safety 5.3) c. Rules and regulation 5.4) d. Current issues of herbal plants uses
6. Conservation 6.1) a. Establishing germplasm/arboretum for ethno-herbs 6.2) b. Protecting rare/endangered species for future references
7. Field Work on Herbarium 7.1) N/A

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assignment	20%	CLO1
	Quiz	Online Quiz	20%	CLO1
	Visual Assessment	Concept Map	20%	CLO3

Reading List	Recommended Text
	<ul style="list-style-type: none"> • Balick, M. J. 1997, <i>Plants, People, and Culture: The Science of Ethnobotany</i>, W.H. Freeman & Company • Herbal Medicinal Research Centre 2002, <i>Compendium Of Medicinal Plants Used In Malaysia Volumes 1 And 2</i>, Institute For Medical Research • Khadijah, H. 2006, <i>Anatomical Atlas Of Malaysian Medicinal Plants: Volume 1</i>, Penerbit UKM • Khadijah, H. and Mohamad Ruzi, A.R. 2006, <i>Anatomical Atlas Of Malaysian Medicinal Plants: Volume 2</i>, Penerbit UKM • Zakaria, M. and Mohamad, M.A. 2010, <i>Traditional Malay Medicinal Plants</i>, Insitut Terjemahan Negara Malaysia Berhad • Schultes, R.E. and Von Reis, S 2005, <i>Ethnobotany: The Evolution of A Discipline</i>, 1st Edition Ed., Timber Press, Incorporated • Shukla, R.S. and Chandel, P. 2005, <i>Textbook of Plant Ecology: Ethnobotany and Soil Science</i>, 10th Edition Ed., Chand & Co Ltd • Swami, S., Dutt, H.D., and Vasisht, R.K. 2006, <i>Compendium of Medicinal and Aromatic Plant; Asia: Volume 2</i> • Wong, J. 2009, <i>Grow Your Own Drugs: Easy Recipes for Natural Remedies and Beauty Treats</i>, 1st Edition Ed., Collins
Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources