



Course code	PHM3015
Course title (English)	Traditional Chinese Medicine and Natural Drugs
Course title (Chinese)	中医药及天然药物
Units	2
Language of Instruction	English
Description (English)	<p>This course aims to introduce the basic theories of Traditional Chinese Medicine (TCM) and the pharmaceutics of commonly used herbal medicines. Topics like natural habitat and harvesting of medicinal materials and their relation to pharmaceutical efficacy, purposes and methods of processing crude medicines, applications of common Chinese Materia Medica, introduction and demonstration using equipment for authentication procedures, introduction of commonly used natural products, and pharmacokinetic and pharmacodynamic interactions and mechanisms of potential herb-drug interaction will be discussed. The theories and methods using modern pharmacology and pharmaceutical chemistry in studying medicinal botany will also be introduced. Upon completion of this course, students are expected to understand the basics of TCM and apply the knowledge of pharmaceutics of natural drugs in new drug development with TCM components.</p>
Description (Chinese)	<p>本课程旨在介绍中医基础理论和常用草药的药剂学。课程将讨论药材的自然产地、采收及其与药效的关系、药材炮制的目的和方法、常用中药材的应用、鉴定过程中使用设备的介绍和演示、常用天然产物的介绍、和药代动力学等，以及药物效应动力学和草药-药物潜在的相互作用机制。课程还将介绍利用现代药理学和药物化学研究药用植物学的理论和方法。完成本课程后，学生将了解中药基础知识，并将天然药物药剂学知识应用于中药成分新药开发。</p>

Learning Outcomes

Upon completion of this course, students are expected to understand the basics of TCM and apply the knowledge of pharmaceutics of natural drugs in new drug development with TCM components.



Indicative Teaching Plan

Week	Content/ topic/ activity
1	The history and development of medicinal natural products
2	Modernization of herbal medicine
3	The therapeutic aspects of herbal products
4	The safety aspects of herbal products
5	Drug development from natural products I-IV
6	Application of Common Chinese Materia Medica I
7	Application of Common Chinese Materia Medica II
8	Application of Common Chinese Materia Medica III
9	Application of Common Chinese Materia Medica IV
10	Introduction to authentication and quality control of TCM
11	Review
12	Final Exam