



## UNIVERSITI TEKNOLOGI MARA

### PHC512: PHARMACOEPIDEMIOLOGY AND PUBLIC HEALTH PHARMACY

<b>Course Name (English)</b>	PHARMACOEPIDEMIOLOGY AND PUBLIC HEALTH PHARMACY <b>APPROVED</b>
<b>Course Code</b>	PHC512
<b>MQF Credit</b>	2
<b>Course Description</b>	This course provides the student with the concepts pharmacoepidemiology and public health pharmacy covering from pharmacoepidemiological studies and its measurements and techniques, source of information and critical appraisal of evidence as well as the social and cultural aspects of pharmacy practice. It is also supplemented with strong emphasis on the concepts of health-related social behaviour and quality of life.
<b>Transferable Skills</b>	Research methodology and study design, critical appraisal of literature, communication and presentation skills
<b>Teaching Methodologies</b>	Lectures, Blended Learning, Case Study
<b>CLO</b>	CLO1 Describe the concepts in pharmacoepidemiology and public health pharmacy. CLO2 Demonstrate problem solving skills in social and cultural aspects of pharmacy practice. CLO3 Display information management skills in drug information and literature evaluation
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. Pharmacoepidemiological studies.</b> 1.1) 1.1 Types of pharmacoepidemiological studies (observational and experimental design). 1.2) 1.2 Preparing a proposal for pharmacoepidemiological studies. 1.3) 1.3 Pharmacovigilance (monitoring adverse drug reactions, drug-drug interactions, pattern of prescription etc). 1.4) 1.4 Pharmacoconomics.	
<b>2. Measurements and techniques in pharmacoepidemiological studies.</b> 2.1) 2.1 Accuracy of studies; data collection, sampling techniques and data validation 2.2) (sensitivity, specificity, accuracy, precision, acceptability, and ease of use and cost 2.3) effectiveness. 2.4) 2.2 Measurement of mortality, morbidity, frequency (including prevalence, incidence, cumulative incidence) and effect (absolute effect, comparative effect and attributable 2.6) risk).	
<b>3. Source of information and critical appraisal of evidence.</b> 3.1) 3.1 Sources of drug information, advantage and limitation of use. 3.2) 3.2 Types of information obtainable from various sources of information. 3.3) 3.3 Critical appraisal of evidence. 3.4) 3.4 Principles in oral presentation and elements in good written communication.	
<b>4. Social concepts in pharmacy.</b> 4.1) 4.1 Social context of pharmacy and social determinants of health and illness. 4.2) 4.2 Introduction to qualitative research.	
<b>5. Health-related social behaviours.</b> 5.1) 5.1 Health seeking behaviours. 5.2) 5.2 Psychosocial issues in medication adherence. 5.3) 5.3 Cultural aspects on health and illness. 5.4) 5.4 Cultural impact on health and illness. 5.5) 5.5 Culture in communication.	



Assessment Breakdown		%		
Continuous Assessment		100.00%		
Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Video presentation	20%	CLO2
	Final Test	Final test	40%	CLO1
	Test	Mid-semester test	20%	CLO1
	Written Report	PBL report	20%	CLO3
Reading List	Reference Book Resources	<ul style="list-style-type: none"> <li>Nathaniel RICKLES, Albert WERTHEIMER, J. O. N. SCHOMMER 2016, <i>Social and Behavioral Aspects of Pharmacy Practice</i>, 3rd Ed., Kendall Hunt Publishing [ISBN: 9781465252579]</li> <li>Guyatt G., Rennie D., Meade MO., Cook DJ. 2015, <i>Users' Guides to the Medical Literature: Essentials of Evidence-Based Clinical Practice</i>, 3rd Ed., McGraw Hill Education [ISBN: 9780071790710]</li> </ul>		
Article/Paper List	This Course does not have any article/paper resources			
Other References	This Course does not have any other resources			