

# **Master of Public Health (MPH)**

## **MD 776**

### **Candidate's Manual**

#### **2019/2020**



**Department of Public Health Medicine**  
**Faculty of Medicine**  
**Universiti Teknologi MARA (UiTM)**  
**Sungai Buloh**  
**Selangor, Malaysia**

## **Background**

Master of Public Health (MPH) is a medical post-graduate coursework programme conducted in two semesters. The aim of the programme is to provide an in depth training in the field of public health for medical doctors. Graduates from this programme are expected to be knowledgeable, skillful and competent in identifying and solving various public health problems. Graduates are also ensured that they are able to conduct research ethically and analytically in addressing public health issues. MPH holders who fulfil the entry requirements will be considered to pursue further training in Doctor of Public Health (DrPH), as a prerequisite to be gazetted as Public Health Medicine Specialists (PHMS).

## **Specific Objectives**

Upon the completion of the programme, graduates are expected to:

- 1) Demonstrate enhanced knowledge in public health disciplines
- 2) Apply technical skill to address public health issues competently
- 3) Identify, prioritize and manage public health problems in the community using scientific and critical thinking skills
- 4) To utilize appropriate communication skills to convey prevention and intervention strategies used to improve health outcomes
- 5) Understand the social, cultural and ethical issues in the implementation of public health programs and activities
- 6) Manage information for lifelong learning in public health
- 7) Develop research project ethically and professionally with minimal supervision.
- 8) Apply health management principles in managerial and entrepreneurship
- 9) Lead public health team and collaborate with relevant authorities/organizations to improve healthcare and services

## **Entry Requirements**

Candidates must have the following requirements:

### **A) For Malaysian candidates**

i. Possess a recognized medical degree (MBBS or MD) OR other equivalent degree from a university recognized by the Senate of Universiti Teknologi MARA (UiTM).

AND

- ii. Obtained full registration with MMC.
- iii. Minimum 1-year experience after housemanship, either in hospitals or other health institutions. Priority will be given to applicants with working experience in the field of public health.
- iv. Approved by Senate.
- v. Passed the entrance evaluation and an interview or any form of assessment deemed necessary by the Public Health Conjoint Committee.
- vi. Fulfil all university requirements and regulations.

### **B) For International candidates**

i. Possess a recognized medical degree (MBBS or MD) OR other equivalent degree from a university recognized by the Senate of Universiti Teknologi MARA (UiTM).

AND

- ii. Minimum 1-year experience after housemanship, either in hospitals or other health institutions. Priority will be given to applicants with working experience in the field of Public Health
- iii. A TOEFL score of 550 for paper-based or 213 for computer-based or IBT score of 79-80 or an IELTS certificate with at least Band 6.
- iv. Other equivalent qualifications / experience approved by the Senate
- v. Required to have a medical insurance policy to cover medical costs while studying in Malaysia.
- vi. Show proof of financial ability to pursue their studies and live in Malaysia for the duration of study. A letter of financial guarantee/sponsorship or the most recent financial statement from applicant's bank is sufficient.
- vii. Clear the medical check-up by the University's health authorities;
- viii. Have international passports with at least two years validity and meet all immigration procedures.
- ix. Fulfil all university requirements and regulations

Note: Candidates from Ministry of Health (MOH) Malaysia are selected on the basis of passing the entrance exam organized by the National Public Health Conjoint Board. Following selection, students sponsored by MOH requires the ministry approval to proceed with the programme.

## Programme Structure

	Week		Major/ Elective	Unit
		<b>Semester 1</b>		
Registration /Orientation week	1			
Teaching/ Learning	14	Principles of Epidemiology (MPH701)	Major	3
		Principles of Biostatistics (MPH702)	Major	3
		Research Methodology (MPH703)	Major	4
		Environmental Health (MPH704)	Major	3
		Occupational Health (MPH705)	Major	3
		Family Health (MPH706)	Major	3
		Research Proposal Development (MPH707)	Major	3
Revision	1			
Exams	4			
Semester Break	5			
		<b>Semester 2</b>		
Teaching/ Learning	14	Research Project (MPH731)	Major	3
		Applied Epidemiology (MPH732)	Major	3
		Statistic Application for Research (MPH733)	Major	3
		Health Management (MPH734)	Major	3
		Population Health and Dynamics (MPH735)	Major	3
		Society, Behaviour and Health (MPH736)	Major	3
Revision	1			
Exams	4			
Semester Break	7			
	<b>51</b>			<b>40</b>

The MPH programme takes place over two academic semesters. Each semester comprises 18 weeks of which 14 weeks are for coursework and the final 5 weeks are for revision period and examinations. The overall total for coursework and research is 40 units. These consist of 34 units of coursework, 3 units of Research Proposal Development and 3 units for Research Project. All courses/modules in both semesters are compulsory.

### **Teaching and Learning Approaches**

These are developed via all avenues of teaching such as lectures, tutorials, hands-on in computer laboratory, seminar presentations, assignments, field visits, research project presentation, research project dissertation write-up and self-learning.

### **Assessment System**

Assessment system for this programme will consist of continuous and final assessments. Continuous assessment will be between 30% to 40% and final assessment will be between 60% to 70%.

#### **Students are assessed by the followings:**

- i. Attendance of not less than 80% for all required classes such as lectures / seminars / journal club during the course work. Students with attendance of less than 80% will not be allowed to sit for the End of Module Examinations.
- ii. Submit and present (viva voce) research project where it is examined by at least 2 internal examiners.
- iii. Minimum passing grade of an average CGPA of 3.0 (minimum grade of B) for all modules.
- iv. Continuous supervisor's report and assessment (every 6 months) – each candidate will have 1 supervisor.

### A. Continuous Assessment

It is defined by each module and will include assessments such as written assignments, individual presentation, group presentation and field visit reports.

### B. Final Assessment

This will be the written examination at the end of each semester that measures the knowledge and critical thinking skills of the candidates. The written examination will be in the form of essay questions, short notes questions or problem-based questions. Duration of examination will be one hour per unit course offered. For example, a 3 units course will have a three hours examination. Final assessment can include assignments that need to be submitted at the end of the particular semester.

### **Regulations of the Programme**

- a. It is compulsory for all candidates to sit for the final examination for each course at the end of each semester.
- b. It is compulsory for candidates to attend lectures, supervision sessions as well as other learning activities such as seminars, journal club, tutorials, practical sessions or field visits.
- c. Candidates who fail to achieve 80% of the attendance without written permission from the Faculty are not allowed to sit for the final assessment and will be given an F grade with a ZZ status.
- d. A fail status is given to students who obtain a grade less than B.
- e. A candidate who fails a course may repeat the course up to 2 times during the duration of study.
- f. A candidate who obtained a CGPA of less than 2.80 for any semester will be terminated from the University.
- g. A candidate who was absent for the assessment of all the registered courses for the semester without the approval of the University will be terminated from the University.

### **Period of Study**

The minimum period of study for this programme is 2 semesters. The maximum period allowed is 3 semesters.

### **Fee Structure**

<b>Candidate</b>	<b>Semester 1</b>	<b>Semester 2</b>	<b>TOTAL</b>
Malaysian	RM 5,798.00	RM 5,125.00	RM 10,923.00
International	RM 7,898.00	RM 7,025.00	RM 14,923.00

### **Graduation**

A candidate will be conferred the Masters Degree upon:

- a. achieving a minimum of CGPA of 3.0.
- b. achieving a minimum grade of B in all the registered courses.
- c. fulfillment of all University requirements and regulations.
- d. approval by the Senate.

## Appendix 1: List of Department Academic Staff

<b>Lecturer (Initials)</b>	<b>Email</b>	<b>Contact no.</b>
A/P Dr Zaliha Ismail (ZI)	zaliha78@uitm.edu.my	7178/ 012-9838638
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Dr Chen Xin Wee (CXW)	drchenxw@uitm.edu.my	7180/ 012- 2839618

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## **Appendix 2: Courses and Topics**

### **1. PRINCIPLES OF EPIDEMIOLOGY (MPH701)**

<b>Topics</b>	<b>Method</b>	<b>Hours</b>
Principles of epidemiology	L & SL	8
Burden of diseases 1	L, S & SL	13
Burden of diseases 2	L & SL	7
Epidemiological research designs	L & SL	6
Epidemiological research - Cross sectional and community survey	S, JC & SL	9
Epidemiological research - Case-Control	L & SL	3
Epidemiological research – Cohort	L & SL	3
Epidemiological research – Intervention and trial	L & SL	6
Risk and association	L, T & SL	13
Bias, Confounding and Interaction	L, SL & A	22
Causation	L & SL	4
Health outcome studies	L, S & SL	13
End of module Examination	SL	14
<b>TOTAL</b>		<b>121</b>

### **2. PRINCIPLES OF BIostatISTICS (MPH702)**

<b>Topics</b>	<b>Methods</b>	<b>Hours</b>
Introduction to Biostatistics	L & SL	4
Descriptive Statistics	L, A & SL	14
Introduction to Statistical Software (SPSS)	L, CL & SL	15
Probability & Sampling Distribution	L, T, A & SL	15
Inferential Statistics – Estimation	L, T, A & SL	12
Inferential Statistics – Hypothesis Testing	L & SL	4
Analyzing Quantitative Data: T-test & ANOVA	L, CL, T, A & SL	19
Analyzing Qualitative Data: Chi-square & Fisher's Exact Test	L, CL, T, A & SL	17
End of Module Examination	SL	20
<b>TOTAL</b>		<b>120</b>

### 3. RESEARCH METHODOLOGY (MPH703)

Topics	Method	Hours
Introduction to public health research	L & SL	3
Research question, PICO & study objectives	L, CL, S, A & SL	21
Conceptual Framework	L & SL	3
Literature: Bibliography software	CL & SL	15
Literature: Search and review	CL, S, A & SL	27
Study design, research design	L, S, JC & SL	12
Sampling techniques	L, JC & SL	12
Sample size, power of study and error	CL, S, A & SL	23
Study population, study variables and operational definitions	L & SL	3
Data collection, research tools and data management	L, S, A & SL	25
Errors in research and other issues	L, JC & SL	7
Introduction to Qualitative Research	L, S & SL	9
<b>TOTAL</b>		<b>160</b>

### 4. ENVIRONMENTAL HEALTH (MPH704)

Topics	Method	Hours
Introduction to Environmental Health	L & SL	4
How Humans Impact the Environment and Vice Versa	S & SL	8
Principle of Exposure, Dose and Response	L, S & SL	7
Food Safety and Quality Control	S & SL	9
Drinking Water Quality and Water Resources	L, S & SL	11
Housing, settlements and Healthy livings	T, S & SL	13
Public Health Entomology	L & SL	4
Environmental Sanitation and Engineering	L, S, JC & SL	10
Introduction to Environmental Toxicology	L, JC & SL	10
Environmental Health Risk Assessment and Management	L, S, JC & SL	14
Disaster management	S & SL	4
Environmental Health Laws and Legislation	S & SL	8
Public Health Laboratory	FV	4
Department of Environment	FV	4
Engineering Division Ministry of Health	FV	4
End Module Examination	A & SL	6
<b>TOTAL</b>		<b>120</b>

## 5. OCCUPATIONAL HEALTH (MPH705)

Topics	Method	Hours
Introduction to Occupational Health	L & SL	4
Occupational health legislations	S & SL	8
Principles of toxicology	L, S & SL	7
Occupational diseases	L & SL	9
Ergonomics and occupational injuries	S & SL	10
Industrial hygiene	T, S & SL	13
Health risk assessment	L & SL	4
Medical Surveillance	L, S, JC & SL	10
Fitness to work	L, JC & SL	10
Prevention and control of occupational diseases	L, S, JC & SL	14
Workplace visits 1	FV & SL	5
Workplace visits 2	FV, A & SL	8
Occupational Health Services (OHS)	L, S & SL	5
Disability Assessment	L & SL	3
Occupational Health Management	S & SL	4
End of module examination	A & SL	6
<b>TOTAL</b>		<b>120</b>

## 6. FAMILY HEALTH (MPH706)

Topics	Method	Hours
Introduction to Family Health	L & SL	6
Perinatal Health	L, JC & SL	11
Maternal and Women Health	L, S & SL	8
Child Health	L, FV & SL	26
Adolescent health	L, S, FV & SL	22
Mens' Health	L & SL	3
Elderly Health	L, S, FV & SL	17
Primary Health Care	L & SL	3
Community nutrition	L, A & SL	13
End module Examination	SL	12
<b>TOTAL</b>		<b>121</b>

## 7. RESEARCH PROPOSAL DEVELOPMENT (MPH707)

Topics	Method	Hours
Introduction to writing research proposal	L	1
Ethics application and approval	A & SL	16
Development of concept paper	A & SL	33
Development of research proposal	A & SL	56
Research budget, Gannt chart and milestones	A & SL	14
<b>TOTAL</b>		<b>120</b>

## 8. RESEARCH PROJECT (MPH731)

Topics	Method	Hours
Introduction to research project	L, S & SL	17
Ethics application and approval	S & SL	5
Funding application and management	S & SL	5
Data collection management	S & SL	7
Analysis of data	S & SL	9
Preliminary research findings	S & SL	9
Research findings	S & SL	9
Organizing research output	S & SL	11
Appraisal of research output	S & SL	9
Scientific presentation of research output	L, S & SL	10
Scientific writing of research output	L, S, A & SL	30
<b>TOTAL</b>		<b>121</b>

## 9. APPLIED EPIDEMIOLOGY (MPH732)

Topics	Method	Hours
Principle of disease prevention and control	L & SL	6
Disease Surveillance	L, T, FV & SL	16
Health related data	L, S, FV & SL	17
Investigation and Control of Epidemics	L, T, A & SL	25
Screening of Diseases	L, JC & SL	13
Disease Prognosis	L & SL	8
Epidemiology, policy and prevention.	L, S, FV & SL	20
End of Module Examination	SL	18
<b>TOTAL</b>		<b>123</b>

## 10. STATISTIC APPLICATION FOR RESEARCH (MPH733)

Topics	Method	Hours
Correlation analyses	L, CL, T, A & SL	12
Simple Linear Regression	L, CL, T, A & SL	11
Simple Logistic Regression	L, CL, T, A & SL	11
Introduction to Multivariable Analysis	L & SL	6
Multiple Linear Regression	L, CL, T, A & SL	18
Multiple Logistic Regression	L, CL, T, A & SL	18
Non Parametric Method	L, CL, T, A & SL	23
End of Module Examination	SL	20
<b>TOTAL</b>		<b>119</b>

## 11. HEALTH MANAGEMENT (MPH734)

Topics	Method	Hours
Principle of Health management	L & SL	3
Planning and Evaluation of Health Program	L, A & SL	13
Organizational Behaviour	S & SL	6
Organizational Change	L & SL	3
Human Resource Management	JC, A & SL	18
Performance Appraisal	S & SL	10
Financial Management	L & SL	3
Health Economics	S & SL	10
Management of Ambulatory Services and Health Centers	FV, A & SL	22
Health Informatics	S & SL	8
Health Law	L, S, A & SL	21
End of Module Examination	SL	6
<b>TOTAL</b>		<b>123</b>

## 12. POPULATION HEALTH AND DYNAMICS (MPH735)

Topics	Method	Hours
Basic Concepts of Population Health	L & SL	6
Population Health Measurement and Health Outcomes Measurement	L, FV, A & SL	28
Overview of population dynamics	L & SL	3
Urban poor and dynamics	S, FV, A & SL	28
Determinants of Population Health	L & SL	3
Introduction to Global Health	JC & SL	8
Migrants Health	L, S, FV, A & SL	33
End of Module Examination	SL	12
<b>TOTAL</b>		<b>121</b>

## 13. SOCIETY, BEHAVIOUR AND HEALTH (MPH736)

Topics	Method	Hours
Determinants of Health	L, S, A & SL	15
Sociology of Health and Illness	L, S & SL	15
Health Promotion and Community Participation	L, S, A & SL	21
Theories of Health Behaviour Change	L, JC & SL	11
Culture, Religion and Healthcare	L, JC & SL	14
Risk Communication	L, S, A & SL	22
End of Module Examination	SL	22
<b>TOTAL</b>		<b>120</b>

**L** : Lecture  
**T** : Tutorial  
**CL** : Computer lab  
**S** : Seminar  
**FV** : Field Visit  
**JC** : Journal Club  
**A** : Assignments  
**SL** : Self Learning

## **Appendix 3: References**

### **PRINCIPLES OF EPIDEMIOLOGY (MPH701)**

1. Gordis L. Epidemiology. 5th ed. Philadelphia: Saunders; 2013.
2. Friss RH, Thomas AS. Epidemiology for public health practice. 5th ed. Boston: Jones and Bartlett; 2013.
3. Rothman KJ. Epidemiology: An introduction. 2nd ed. New York: Oxford University Press; 2012.
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### **PRINCIPLES OF BIOSTATISTICS (MPH702)**

1. Wayne W. Daniel. Biostatistics: Basic Concepts and Methodology for the Health Sciences, International Student Version, 9th Edition. John Wiley & Sons Ltd. 2010.
2. Sabine Landau & Brian S. Everitt (2004). Handbook of Statistical Analyses using SPSS. Chapman & Hall/CRC Press.
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### **RESEARCH METHODOLOGY (MPH703)**

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3. Grobbee, D.E., Hoes, A.W. (2009) Clinical Epidemiology: Principles, Methods, and Applications for Clinical Research. 2<sup>nd</sup> Edition. Massachusetts.
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## **OCCUPATIONAL HEALTH (MPH705)**

1. Harrington, J.M. Gill, F.S. Aw, T.C. Gardiner, K. 2006. Occupational health. Blackwell Publishing.
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3. Adams, P.H., Baxter, P.J., & Cockrof, H. 2000. Hunter's Diseases of Occupations. 9<sup>th</sup> Ed. Oxford University Press.
4. Levy BS. 2000. Occupational Health, Recognizing and Preventing Work Related Diseases and Injury, 4<sup>th</sup> Ed. Philadelphia: Lippincott Williams & Wilkins.
5. David Koh and Ken Takahashi 2011. Textbook of Occupational Medicine Practice (3rd Edition)
6. Barry S. Levy, David H. Wegman, Sherry L. Baron and Rosemary K. Sokas (2011) Occupational and Environmental Health: Recognizing and Preventing Disease and Injury

## **FAMILY HEALTH (MPH706)**

1. Bhatia, J. Perinatal Nutrition: Optimizing Infant Health & Development (Nutrition and Disease Prevention). Marcel Dekker: Georgia, 2005.
2. Gregory, DS. Maternity & Women's Health (Thomson Delmar Learning's Case



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3. Neill, S & Knowles, H. The Biology of Child Health: A Reader in Development and Assessment. Palgrave Macmillan: London, 2004.
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  5. Kovacs, G & Briggs, P. Lectures in Obstetrics, Gynaecology and Women's Health. Springer: New York, 2015.
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### **RESEARCH PROPOSAL DEVELOPMENT (MPH707)**

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### **RESEARCH PROJECT (MPH731)**

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### **APPLIED EPIDEMIOLOGY (MPH732)**

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Surveillance. Oxford Uni Press, 2010

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### **STATISTIC APPLICATION FOR RESEARCH (MPH733)**

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### **HEALTH MANAGEMENT (MPH734)**

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### **POPULATION HEALTH AND DYNAMICS (MPH735)**

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### **SOCIETY, BEHAVIOUR AND HEALTH (MPH736)**

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2. Planning, Implementing & Evaluating Health Promotion Programs A Primer (6th Edition). James F Mckenzie, Brad L. Neiger & Rosemary Thackery (2012)
3. Health Promotion in Practice. Sherri Sheinfield & Joan Arnold (2006)
4. Introduction to Health Behavior Theory (2nd Edition). Joanna Aboyoun Hayden (2013)
5. Dictionary of Public Health Promotion and Education: Terms and Concept. Naomi Modeste, Teri Tamayose & Helen Hopp Marshak (2004)

### **ACADEMIC FEE:**

<https://ipsis.uitm.edu.my/v2/images/pdf/fees-29mac2019.pdf>

### **Programme Coordinator**

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