



## Course Syllabus - MBBCh

1. Course title: Microbiology and Immunology		<b>Course code: MICRO1207</b>
2. Credit/contact hours:	28	
3. Number of weeks	16	
4. Level/year at which this course is offered:	Year 1, semester 2	
5. Pre-requisites for this course (if any): Histology, biochemistry, physiology		
6. Co-requisites for this course (if any): physiology, histology and biochemistry		

### Course Description

This course provides details about the physiological function of the immune system, the structure of the immune system (Innate immune system and Adaptive immune system). The role of immune system in protecting the human body from any foreign agent (Innate immune response and Adaptive immune response). This course will also discuss applied immunology e.g., hypersensitivity, organ transplant, immunodeficiency disorders, autoimmune disorders and tumor immunology.

### Course Learning Outcomes

CLOs		Aligned-PLOs
1	<b>Skills:</b>	
K1	explain the structure and function of immune system (Innate and Adaptive immune systems)	A1
K2	explain the role of immune system in clinical disorders related to immunology.	A2
S1	Apply and analyze the serological methods for diagnosis of immunological diseases	B2

### Course Delivery Plan

No	List of Topics	Contact Hours
1	General Basic Immunology: Structure and function of the Immune system (Innate and Adaptive)	18
2	Applied Clinical Immunology	10

## Teaching and Assessment

### 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	<b>Skills</b>		
K1	Explain the structure and function of Immune system	Lect,CBL,PBL,SDL, practical	Oral Practical Short Accounts MCQs
K2	explain the role of immune system in clinical disorders related to immunology.	Lect,CBL,PBL,SDL, practical	Oral Practical Short Accounts MCQs
S1	Apply and analyze the serological methods for diagnosis of immunological diseases	Practical lab	Spotters

### 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Year assessment		30%
2	oral		14%
3	practical		20%
	MCQ		23%
	MCQ		13%

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## Learning Resources and Facilities

### 1.Learning Resources

<b>Required Textbooks</b>	<ul style="list-style-type: none"> <li>Delves, P. J., Martin, S. J., Burton, D. R., &amp; Roitt, I. M. (2017). <i>Roitt's essential immunology</i>. John Wiley &amp; Sons.</li> <li>Abbas, A.K., Lichtman, A.H., &amp; Pillai, S. (1991). <i>Cellular and Molecular Immunology</i>.</li> <li>Levinson W, &amp; Chin-Hong P, &amp; Joyce E.A., &amp; Nussbaum J, &amp; Schwartz B(Eds.), (2022). <i>Review of Medical Microbiology &amp; Immunology: A Guide to Clinical Infectious Diseases, 17e</i>. McGraw Hill.</li> </ul>
<b>References Materials</b>	<ul style="list-style-type: none"> <li>1- Theoretical Lecture Handouts</li> <li>2-Practical Handouts,</li> </ul>

	<ul style="list-style-type: none"> <li>• 3-Power Point Presentation</li> <li>• 4- Audio</li> </ul>
<b>Electronic Materials</b>	<ul style="list-style-type: none"> <li>• AMBOSS</li> <li>• Uptodate</li> <li>• Access Medicine</li> </ul>
<b>Other Learning Materials</b>	Library resources

## 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	Laboratory, Classrooms, Demonstration rooms #
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	Data show, Smart board, Wi-Fi
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Slides, Stains, Microscopes

Instructor:

Prof. Magda: magda@dmcg.edu