

# Level 1

## SEMISTER 1A

Course code	Course title	Credit hours		
		Lect.	Pract.	total
MMIP- ANAT 101	Anatomy& embryology(1)	2	0.5	2.5
MMIP- PHYS 102	Physiology(1)	5	1	6
MMIP- HIST 103	Histology(1)	3	1	4
MMIP- BIO 104	Biochemistry(1)	2	1	3
MMIP- EN 105	English	2		2
MMIP- CBL 106	Community Based Learning 1		1	1
MMIP- UN 01	Computer		2	2
MMIP- E 01/02/03/...	Elective (Group A)	1		1
<b>TOTAL</b>		<b>15</b>	<b>6.5</b>	<b>21.5</b>

**N.B.:** this semester is a prerequisite for the first stage( the three preclinical levels).

## Anatomy and Embryology I

### Course content

Topic		Total hours	Number of hours		
			Total lectures	Practical groups	Tutorial
Topics actually taught					
1- Introduction to human anatomy					
1st	Orientation, Anatomical position, Bones	13.5	6	8	1.5

<b>Week</b>	<b>terms &amp; movements</b>					
<b>2nd week</b>	<b>Joints</b>	<b>Skin, fascia &amp; Muscles</b>				
<b>3rd week</b>	<b>Cardiovascular &amp; lymphatic system</b>	<b>Central nervous system</b>				
<b>2- Anatomy of the upper limb</b>						
<b>4<sup>th</sup> week</b>	<b>Pectoral region (1)</b>	<b>Pectoral region (2) &amp; Axilla (1)</b>	<b>27</b>	<b>12</b>	<b>12</b>	<b>3</b>
<b>5<sup>th</sup> week</b>	<b>Axilla (2)</b>	<b>The back</b>				
<b>6<sup>th</sup> week</b>	<b>Scapular region</b>	<b>The arm</b>				
<b>7<sup>th</sup> week</b>	<b>Cubital fossa &amp; Forearm (1)</b>	<b>Forearm (2)</b>				
<b>8<sup>th</sup> week</b>	<b>Retinaculae &amp; Hand (1)</b>	<b>Hand (2)</b>				
<b>9<sup>th</sup> week</b>	<b>Joints</b>	<b>Nerve injuries</b>				
<b>3- General embryology</b>			<b>12.5</b>	<b>10</b>	<b>12</b>	<b>2.5</b>
<b>10<sup>th</sup> week</b>	<b>Gametogenesis</b>	<b>Fertilization</b>				
<b>11<sup>th</sup> week</b>	<b>Implantation</b>	<b>Midline structures</b>				
<b>12<sup>th</sup> week</b>	<b>Formation of embryonic disc</b>	<b>Folding</b>				
<b>13<sup>th</sup> week</b>	<b>Fetal membranes</b>	<b>Umbilical cord &amp; placenta</b>				
<b>14<sup>th</sup> week</b>	<b>Twins</b>	<b>Congenital anomalies</b>				
<b>15<sup>th</sup> week</b>	<b>Revision</b>		<b>14.5</b>	<b>2.5</b>	<b>13</b>	<b>0</b>
<b>TOTAL</b>			<b>82.5</b>	<b>30.5</b>	<b>45</b>	<b>7</b>

# Medical Physiology and Biophysics I

## Course contents:-

### Detailed topics of course topics:

Week	Title	Teaching method	Credit hours	Actual hours
1	Physiology of the cell	Lecture	2	2
1	Body fluids	Lecture	2	2
1	General Physiology	Tutorial	1	1
1	Hematocrit value	Practical	1	2
2	Homeostasis	Lecture	2	2
2	General functions of the blood & plasma proteins	Lecture	2	2
2	General Physiology	Tutorial	1	1
2	Erythrocyte sedimentation rate	Practical	1	2
3	Functions of RBCs	Lecture	2	2
3	Easy Fatigability-1	PBL	2	2
3	Blood	Tutorial	1	1

<b>Week</b>	<b>Title</b>	<b>Teaching method</b>	<b>Credit hours</b>	<b>Actual hours</b>
3	Osmotic fragility test	Practical	1	2
4	Easy Fatigability-2	PBL	2	2
4	Easy Fatigability-3	PBL	2	2
4	Blood	Tutorial	1	1
4	Measurement of Hb content	Practical	1	1
5	Anemias & polycythemias	Lecture	2	2
5	Hemostasis	Lecture	2	2
5	Blood	Tutorial	1	1
5	Blood indices	Practical	1	1
6	Blood coagulation	Lecture	2	2
6	Functions of leukocytes	Lecture	2	2
6	Blood	Tutorial	1	1
6	Bleeding & coagulation time	Practical	1	2
7	Immunity & leukocytes-1	Lecture	2	2
7	Immunity & leukocytes-2	Lecture	1	1
7	Blood groups-Functions of lymphatic organs & tissues	Lecture	1	1
7	Blood	Tutorial	1	1
7	Blood grouping	Practical	1	2
8	Physiologic organization of autonomic outflow	Lecture	2	2

<b>Week</b>	<b>Title</b>	<b>Teaching method</b>	<b>Credit hours</b>	<b>Actual hours</b>
8	Chemical transmission at autonomic junctions	Lecture	2	2
8	Autonomic NS	Tutorial	1	1
8	Frog's sciatic-gastrocnemius preparation	Practical	1	2
9	Responses to sympath.stim	Lecture	2	2
9	Responses to parasympath.stim.	Lecture	2	2
9	Autonomic NS	Tutorial	1	1
9	Record of simple muscle twitch	Practical	1	2
10	Autonomic reflexes & higher control	Lecture	1	1
10	Drugs affecting autonomic nervous system	Lecture	1	1
10	Membrane potential	Lecture	2	2
10	Autonomic NS	Tutorial	1	1
10	Gradation of muscle contraction	Practical	1	2
11	Autonomic NS from anatomical & physiological points of view	Seminar	2	2
11	Action potential	Lecture	2	2
11	Nerve & Muscle	Tutorial	1	1
11	Effect of temperature & fatigue on simple muscle twitch-Site of	Practical	1	2

<b>Week</b>	<b>Title</b>	<b>Teaching method</b>	<b>Credit hours</b>	<b>Actual hours</b>
	fatigue			
12	Neuromuscular transmission	Lecture	2	2
12	Excitation-contraction coupling	Lecture	2	2
12	Nerve & Muscle	Tutorial	1	1
12	Effect of two successive & several stimuli on muscle contraction	Practical	1	2
13	Contraction and excitation of smooth muscle	Lecture	2	2
13	Functional histology of the cardiac muscle	Lecture	2	2
13	Cardiac muscle	Tutorial	1	2
13	Revision	Practical	1	2
14	Cardiac muscle properties: excitability	Lecture	2	2
14	Cardiac muscle properties: rhythmicity	Lecture	2	2
14	Cardiac muscle	Tutorial	1	1
15	Cardiac muscle properties: conductivity	Lecture	2	2
15	Cardiac muscle properties: contractility	Lecture	2	2
15	Cardiac muscle	Tutorial	1	1

# Histology I

## Course contents

Week	Topics	Title	Teaching method	Actual hours
1 <sup>st</sup> week	1 : Introduction & Microtechniques	Introduction & Microtechniques	Lecture +	2
		Histological methods of preparation and staining	practical	2
	Cytology: (Membranous organells)	(LM & EM of Cell membrane, Mitochondria)	Lecture + Tutorial + practical	2
		LM & EM of Cell membrane, Mitochondria	practical	2
		Endoplasmic reticulum, Golgi apparatus, Lysosomes	Lecture + Tutorial + practical	2

			<b>al</b>	
		<b>EM Golgi+ RER+ SER apparatus, Lysosomes</b>	<b>practical</b>	<b>2</b>
<b>2<sup>nd</sup> week</b>	<b>Non Membranous organelles</b>	<b>Ribosomes, Cytoskeleton, Centrioles, Cilia</b>	<b>Lecture + Tutorial + practical</b>	<b>2</b>
		<b>EM of Ribosomes, Cytoskeleton, Centrioles, Cilia</b>	<b>practical</b>	<b>2</b>
	<b>Non Membranous organelles</b>	<b>Cytoplasmic inclusions</b>	<b>Lecture + Tutorial + practical</b>	<b>2</b>
		<b>EM of Cytoplasmic inclusions</b>	<b>practical</b>	<b>2</b>
	<b>Epithelium</b>	<b>General characteristics of epithelium &amp; its types</b>	<b>Lecture + Tutorial + practical</b>	<b>4</b>
		<b>LM of diff types of surface epith(Simple&amp;stratified)</b>	<b>practical</b>	<b>2</b>
<b>3<sup>rd</sup></b>	<b>Epithelium</b>	<b>Glandular epithelium</b>	<b>Lecture</b>	<b>2</b>



<b>week</b>			<b>+ Tutorial +practical</b>	
		<b>L M of Glandular epithelium+Neuro-epith</b>	<b>practical</b>	<b>2</b>
<b>3<sup>rd</sup> week</b>	<b>Connective Tissue</b>	<b>Cells of C.T. proper</b>	<b>Lecture + Tutorial +practical</b>	<b>4</b>
		<b>C.T (lig. Nuchae + umbilical cord)</b>	<b>practical</b>	<b>2</b>
<b>4<sup>th</sup> week</b>	<b>Connective Tissue</b>	<b>Types of C.T. proper</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>
		<b>Revision practical CT</b>	<b>practical</b>	<b>2</b>
	<b>Blood &amp; Hemopoiesis</b>	<b>Structure &amp; function of RBCs &amp;WBCs</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>
		<b>Blood film</b>	<b>practical</b>	<b>2</b>
<b>5<sup>th</sup> week</b>	<b>Blood &amp; Hemopoiesis</b>	<b>Structure &amp; function of WBCs&amp; platelets+ Hemopoiesis</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>

		<b>LM of Bone marrow</b>	<b>practical</b>	<b>2</b>
	<b>Lymphatic (Immune) System</b>	<b>lymph node &amp; spleen</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>
		<b>LM of lymph node &amp; spleen</b>	<b>practical</b>	<b>2</b>
<b>6<sup>th</sup> week</b>	<b>Lymphatic (Immune) System</b>	<b>Tonsils &amp; thymus</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>
		<b>LM of Tonsils &amp; thymus</b>	<b>practical</b>	<b>2</b>
<b>7<sup>th</sup> week</b>				
<b>8<sup>th</sup> week</b>	<b>Muscular Tissue</b>	<b>Skeletal muscle</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>
		<b>Skeletal ms (L.S+ T.S+ ms spindle)</b>	<b>practical</b>	<b>2</b>
<b>9<sup>th</sup> week</b>	<b>Muscular Tissue</b>	<b>Cardiac muscle &amp; Smooth muscle</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>

		<b>Cardiac ms + moderator band</b>	<b>practical</b>	<b>2</b>
<b>10<sup>th</sup> week</b>	<b>Nervous Tissue:</b>	<b>Neurons &amp; Types of nerve fibers</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>
	<b>Nervous Tissue:</b>	<b>( Nerve trunk H&amp; E + osmic acid)</b>	<b>practical</b>	<b>2</b>
<b>11<sup>th</sup> week</b>		<b>Degeneration &amp; Regeneration of nerve , Neuroglia</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>
		<b>(Spinal gang. H&amp; E + silver &amp; sympath gang. H&amp; E )</b>	<b>practical</b>	<b>2</b>
<b>12<sup>th</sup> week</b>	<b>Revision</b>	<b>Revision</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>
		<b>Revision</b>	<b>practical</b>	<b>2</b>
<b>13<sup>th</sup> week</b>	<b>Revision</b>	<b>Revision</b>	<b>Lecture + Tutorial +practical</b>	<b>2</b>
		<b>Revision</b>	<b>practical</b>	<b>2</b>

<b>14<sup>th</sup> week</b>	<b>Revision</b>	<b>Revision</b>	<b>Lecture + Tutorial +practic al</b>	<b>2</b>
<b>15<sup>th</sup> week</b>	<b>Revision</b>	<b>Revision</b>	<b>Lecture + Tutorial +practic al</b>	<b>2</b>

## Medical Biochemistry I

### Course Contents

Topic	Week	Title	Teaching method	Actual hours
Physical chemistry	1	Solution	Lecture	2
	1	Molish test	Practical	2
	2	PH	Lecture	2
	2	Iodine, Fehling and Benedict	Practical	2
	3	Acidosis&alkalosis	Lecture	2
	3	Barfoied	Practical	2
	4	Buffers	Lecture	2
	4	Ketose & Selwanoff	Practical	2
Carbohydrate	5	Importance of carbohydrate	Lecture	2

<b>Topic</b>	<b>Week</b>	<b>Title</b>	<b>Teaching method</b>	<b>Actual hours</b>
chemistry	5	Revision	Practical	2
	6	Classification of carbohydrates	Lecture	2
	6	Revision	Practical	2
	7	Polysaccharides	Lecture	2
	7	Protein (Biuret test)	Practical	2
Lipid Chemistry	8	Importance of lipid	Lecture	2
	8	Heller & heat coagulation	Practical	2
	9	Classification of lipids	Lecture	2
	9	Full & ½ saturation & acidification test	Practical	2
	10	Compound lipids	Lecture	2
	10	Colour reaction	Practical	2
Protein chemistry	11	Importance of proteins	Lecture	2
	11	Revision	Practical	2
	12	Amino acids	Lecture	2
	12	Revision	Practical	2
	13	Structures of proteins, classification of proteins	Lecture	4
	13	Revision	Practical	2
	14	Hemoglobin	Lecture	2
	14	Final practical exam	Practical	2

## English Language

### Course Contents

TOPIC	% Total hours	Number of hours		
		Total	Lectures	Others
Medical Terminology	26	8	8	0
Comprehension	20	6	6	0
Writing Paragraph	20	6	6	0
Writing Essay	24	7	7	0
Professional Communication	10	3	3	0
<b>Total</b>	<b>100%</b>	<b>30</b>	<b>30</b>	<b>0</b>

## Community based learning I

### Course Contents:

Week	Topic	Specialty
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Second	Levels of health care in Egypt	Public health
3 <sup>rd</sup>	Communication skills and patient satisfaction	Public health
4 <sup>th</sup>	-----	
5 <sup>th</sup>	CBC report, conditions with increased ESR	Clinical pathology
6 <sup>th</sup>	Blood grouping & morphology of blood cells	
7 <sup>th</sup>	Demonstration of anemia & purpura cases	Pediatric
8 <sup>th</sup>	Heamatology	Internal medicine
9 <sup>th</sup>	Lymph node examination Splenic examination	Surgery
10 <sup>th</sup>	-----	
11 <sup>th</sup>	Galvanic & faradic stimulation of medial & radial nerve	Rheumatology
12 <sup>th</sup>	Galvanic & faradic stimulation of ulnar nerve	Rheumatology
13 <sup>th</sup>	Neuromuscular junction	Rheumatology
14 <sup>th</sup>	Revision	Course coordinator
15 <sup>th</sup>	Exam	Course coordinator

# Computer

## - Course Contents

TOPIC	Practical hours
Computer compnenets	10
Using Windows operating system	10
Using basic applications of windows	8
Using <i>Microsoft word</i>	16
Using Microsoft excel	16
<b>Total</b>	<b>60</b>

## Elective course

Level 1A				
Course No	Course Title	Contact Hours		Credits
		Theory	Practical	
MMIP-E-01	Professional development 1: communication & presentation skills	0.5	0.5	1

### Course Contents:

1. Introduction to communication.
2. Communication in health care.
3. The process and components of communication.



4. The goals, reasons, and hurdles of communication.
5. The psychology of communication.
6. Effective communication.
7. Healthcare team communication.
8. Messages and Meaning.
  - Verbal
  - Non verbal
  - Computer
9. Interpersonal communication
  - Provider-patient communication.
  - Intercultural communication
  - Gender and communication
10. Listening
11. Conflict resolution and negotiation skills.
12. Qualities of outstanding presenters.
13. Techniques to raise self-confidence

## SEMISTER 1B

Course code	Course title	Credit hours		
		Lect.	Pract.	Total
MMIP- ANAT 107	Anatomy& embryology 2*	3.5	2.5	6
MMIP- PHYS 108	Physiology 2*	3	0.5	3.5
MMIP- HIST 109	Histology 2*	2	1	3
MMIP- BIO 110	Biochemistry 2	3	1	4
MMIP- COM 111	Community 1	1.5	0.5	2
MMIP- CBL 112	Community Based Learning 2		1	1
MMIP- UN 02	Human rights	2		2
<b>TOTAL</b>		<b>15</b>	<b>6.5</b>	<b>21.5</b>

\*: courses should be selected together in the same semester.

## Anatomy and Embryology II

### Course Contents

Topic	Week	Title	Teaching method	Credit hours	Actual hours
<b>Chest</b>	<b>1</b>	1)Introduction to mediastinum, heart 1 2) Heart 2	Lecture Tutorial	1.5 2	3.5
	<b>2</b>	1)Pericardium 2)Blood vessels and nerves	Lecture Case study	1.5 2	3.5
	<b>3</b>	1) Thoracic wall 1 2) Thoracic wall 2	Lecture	1.5 2	3.5
	<b>4</b>	1) Pleura	Lecture	1.5	

Topic	Week	Title	Teaching method	Credit hours	Actual hours
Lower limb		2)Lung and lymphatic drainage of the thorax	Tutorial	2	3.5
	5	1)Embryology of CVS 1 2)Embryology of CVS 2	Lecture	1.5 2	3.5
	6	1)Embryology CVS 3 2)Embryology of respiratory system	Lecture	1.5 2	3.5
	7	1) Front of the thigh 1 2)Front of the thigh 2	Lecture	2 1.5	3.5
	8	1)Medial aspect of the thigh 2)Gluteal region	Lecture	1.5 2	3.5
	9	1)Back of the thigh - popliteal fossa 2)Front of the leg and dorsum of the foot	Lecture	1.5 2	3.5
	10	1)Lateral and back of the leg 2)sole	Lecture Tutorial	1.5 2	3.5
	11	1)Joints 1 2)Joints 2- vessels and lymphatics	Lecture Case study	1.5 2	3.5
	12	1)Embryology 1 2)Embryology 2	Lecture Tutorial	1.5 2	3.5

# Medical Physiology and Biophysics II

## Course Contents:

### Detailed topics of course topics:

week	Title	Teaching method	Credit hours	Actual hours
1	The cardiac cycle	Lecture	2	2
1	The heart rate	Lecture	1	1
1	Palpation of radial pulse Auscultation of heart sounds	Practical	1	2
2	The cardiac output	Lecture	2	2
2	Heart	Tutorial	1	1
3	The cardiac work output, reserve and energetics	Lecture	1	1
3	The normal electrocardiogram	Lecture	2	2
3	Electrocardiography (ECG)	Practical	1	2
4	Abnormal electrocardiogram	Lecture	2	2
4	Heart	Tutorial	1	1
5	Hemodynamics	Lecture	2	2
5	Arterial blood pressure	Lecture	1	1
5	Measurement of arterial blood pressure	Practical	1	2
6	A case of Hypertension-1	PBL	2	2
6	A case of Hypertension-2	PBL	1	1

<b>week</b>	<b>Title</b>	<b>Teaching method</b>	<b>Credit hours</b>	<b>Actual hours</b>
6	Reactive hyperemia Capillary reactions to mechanical stimuli	Practical	1	2
7	A case of Hypertension-3	PBL	2	2
7	Vascular	Tutorial	1	1
8	Regulation of arterial blood pressure	Lecture	2	2
8	Vascular	Tutorial	1	1
9	Capillary circulation	Lecture	2	2
9	Pathophysiology of hypertension	Lecture	1	1
9	Capillary fragility test	Practical	1	2
10	Physiology of lymphatic and venous system	Lecture	1	1
10	Coronary and cerebral circulations	Lecture	1	1
10	Vascular	Tutorial	1	1
11	Pulmonary circulation	Lecture	1	1
11	Cutaneous and fetal circulations	Lecture	1	1
11	Cardiovascular adjustment in health and disease	Lecture	1	1
11	Lung volumes & capacities	Practical	1	1
12	Mechanics of ventilation and lung volumes & capacities	Lecture	1	1
12	Gas exchange through respiratory membrane	Lecture	2	2
12	Auscultation of breath sounds	Practical	1	1

week	Title	Teaching method	Credit hours	Actual hours
13	Oxygen & carbon dioxide transport in blood	Lecture	2	2
13	Control of respiration	Lecture	1	1
13	Revision	Practical	1	1
14	Regulation of respiration	Lecture	1	1
14	Respiratory disorders	Seminar	2	2
15	Respiratory insufficiency	Lecture	1	1
15	High altitude & diving physiology	Lecture	1	1
15	Respiration	Tutorial	1	1

## Histology II

### Course contents

Week	Topics	Title	Teaching method	Actual hours
1 <sup>st</sup> week	<u>Vascular System</u>	Structure of blood vessels + arteries	Lecture+ Tutorial+ practical	2
		Aorta+med size A& V	practical	2

<b>2<sup>nd</sup> week</b>	<b><u>Vascular System</u></b>	<b>Veins &amp; Arteriovenous connections</b>	<b>Lecture+ Tutorial+ practical</b>	<b>2</b>
		<b>basilar A</b>	<b>practical</b>	<b>2</b>
<b>3<sup>rd</sup> week</b>	<b>Special CT</b>	<b>Cartilage</b>	<b>Lecture+ Tutorial+ practical</b>	<b>2</b>
		<b>Hyaline + Elastic cartilage</b>	<b>practical</b>	<b>2</b>
<b>4<sup>th</sup> week</b>	<b>Special CT</b>	<b>Bone cells+ types</b>	<b>Lecture+ Tutorial+ practical</b>	<b>2</b>
		<b>Ground+ cancellous + compact bone</b>	<b>practical</b>	<b>2</b>
<b>5<sup>th</sup> week</b>	<b>Special CT</b>	<b>Ossification</b>	<b>Lecture+ Tutorial+ practical</b>	<b>2</b>
		<b>Growing bone</b>	<b>practical</b>	<b>2</b>
<b>6<sup>th</sup> week</b>	<b>Cytogenetics</b>	<b>Nucleus &amp; Nucleolus</b>	<b>Lecture+ Tutorial+ practical</b>	<b>2</b>
		<b>EM Nucleus &amp; Nucleolus</b>	<b>practical</b>	<b>2</b>
<b>7<sup>th</sup> week</b>	<b>Cytogenetics</b>	<b>Cell division</b>	<b>Lecture+ Tutorial+ practical</b>	<b>2</b>

		<b>EM for mitosis</b>	<b>practical</b>	<b>2</b>
<b>8<sup>th</sup> week</b>	<b>Cytogenetics</b>	<b>Chromosomal abnormalities</b>	<b>Lecture+ Tutorial+ practical</b>	<b>2</b>
		<b>Abnormal shape of chromosomes</b>	<b>practical</b>	<b>2</b>
<b>9<sup>th</sup> week</b>	<b>Respiratory system</b>	<b>Respiratory passage+Trachea and bronchi</b>	<b>Lecture+ Tutorial+ practical</b>	<b>2</b>
		<b>Trachea</b>	<b>practical</b>	<b>2</b>
<b>10<sup>th</sup> week</b>	<b>Respiratory system</b>	<b>Lung</b>	<b>Lecture+ Tutorial+ practical</b>	<b>2</b>
		<b>Lung ( adult+ fetal+ injected lung)</b>	<b>practical</b>	<b>2</b>
<b>11<sup>th</sup> week</b>	<b>Skin</b>	<b>Skin</b>	<b>Lecture</b>	<b>2</b>
		<b>Thick skin</b>	<b>practical</b>	<b>2</b>
<b>12<sup>th</sup> week</b>	<b>Skin</b>	<b>Skin Appendage</b>	<b>Lecture</b>	<b>2</b>
		<b>Thin skin</b>	<b>practical</b>	<b>2</b>
<b>13<sup>th</sup></b>	<b>Revision</b>	<b>Revision</b>	<b>Lecture</b>	<b>2</b>



<b>week</b>		<b>Revision</b>	<b>practical</b>	<b>2</b>
<b>14<sup>th</sup> week</b>	<b>Revision</b>	<b>Revision</b>	<b>Lecture</b>	<b>2</b>
		<b>Revision</b>	<b>practical</b>	<b>2</b>
<b>15<sup>th</sup> week</b>	<b>Revision</b>	<b>Revision</b>	<b>Lecture</b>	<b>2</b>
		<b>Revision</b>	<b>practical</b>	<b>2</b>

## Medical Biochemistry II

### Course Contents

<b>Topic</b>	<b>Week</b>	<b>Title</b>	<b>Teaching method</b>	<b>Actual hours</b>
Enzymes	1	-Enzyme nomenclature & classification -Isoenzymes	Lecture	3
	1	Enzyme curves	Practical	2
	2	Enzyme Kinetic	Lecture	3
	2	Electrophoresis	Practical	2
	3	Regulation of Enzyme activity - macrominerals	Lecture	2
				1

Topic	Week	Title	Teaching method	Actual hours
	3	Chromatography	Practical	2
Miner	4	Macrominerals microminerals	Lecture	3
	4	PH meter& idea on Hypercalcemia case	Practical	2
Nutrition	5	Microminerals	Lecture	1
		Nutrition		2
	5	Discussion on hypercalcemia case & Idea on iron deficiency anemia case	Practical	2
Membr	6	Biological membrane	Lecture	3
	6	Discussion on iron deficiency anemia& Idea on Wilson,s disease case	Practical	2
Molecular Biology	7	Nucleotide chemistry	Lecture	3
	7	Discussion on Wilson,s disease case & idea on Marasmes & kwashorkior case	Practical	2
	8	Nucleic acid structure and function & DNA organization	Lecture	3
	8	Discussion on Mrsmes & kwashorkior case& Idea on xerodermia pigmentosa	Practical	2
	9	DNA synthesis & replication	Lecture	3

Topic	Week	Title	Teaching method	Actual hours
	9	Discussion on Xeroderma pigmentosa & idea on hereditary nonpolyposis cancer colon	Practical	2
	10	RNA & protein Synthesis	Lecture	3
	10	Discussion on hereditary nonpolyposis cancer colon	Practical	2
	11	Mutation & Posttranslational modification & regulation of gene Expression	Lecture	3
	11	Revision	Practical	2
	12	Recombinant DNA technology	Lecture	3
	12	Revision	Practical	2
	13	Oxidant & antioxidants	Lecture	3
	13	Final practical Exam	Practical	2
	14	Cancer & oncogene & tumor suppressor gene & apoptosis	Lecture	3
	15	Polypeptide growth factor, tumor markers & stem cell		3

## Community I

### Contents

week	Title	Teaching methods	Actual hours
1	Introduction to general	Lecture	1.5

	<b>epidemiology</b>		
	<b>Epidemiological triad</b>	Practical	1.0
2	<b>Disease process, disease burden</b>	Lecture	1.5
	<b>Natural history of the disease</b>	Practical	1.0
3	<b>Levels of disease prevention</b>	lecture	1.5
	<b>Surveillance</b>	Practical	1.0
4	<b>Screening test</b>	lecture	1.5
	<b>Validity measurement</b>	Practical	1.0
5	<b>Health system in Egypt</b>	lecture	1.5
	<b>Services introduced by 3ry level of HC</b>	Practical	1.0
6	<b>Primary health care</b>	lecture	1.5
	<b>Indicators of service utilization</b>	Practical	1.0
7	<b>General concepts of optimum nutrition</b>	lecture	1.5
	<b>Nutritional needs in different age groups</b>	Practical	1.0
8	<b>Food pyramid guide Healthy eating plat</b>	Lecture	1.5
	<b>Quality</b>	PBL	1.0
9	<b>Quality in health service provision</b>	PBL	1.5
	<b>Quality</b>	PBL	1.0
10	<b>Pillars of quality</b>	Lecture	1.5
	<b>Quality standard in hospital</b>	Field study	1.0
11	<b>Public health administration</b>	lecture	1.5
	<b>How to put a plan to study health problem</b>	Practical	1.0
12	<b>Public health administration</b>	lecture	1.5
	<b>Application of different types of evaluation</b>	Practical	1.0
13	<b>Revision</b>		1.5
14	<b>Revision</b>		1.5

# Community based learning II

## Course Contents:

Week	Topic	Specialty
Second	Basic life support	Emergency
3 <sup>rd</sup>	Blood pressure and heart beats	Emergency
4 <sup>th</sup>	Surveillance system in Egypt	University hospital
5 <sup>th</sup>	Surveillance in university hospital	Health administration department
6 <sup>th</sup>	Micro and macrominerals assessment	Clinical pathology
7 <sup>th</sup>	ECG techniques & ECG reading	Skill lab
8 <sup>th</sup>	<b>Nutritional deficiency</b> <b>Kwashiorkor &amp; marasmus</b>	<b>Pediatric</b>
9 <sup>th</sup>	Basics of normal X ray reading	Radiology
10 <sup>th</sup>	Pulmonary function tests	Public health
11 <sup>th</sup>	Quality parameters in hospitals	Public health
12 <sup>th</sup>	Skeletal affection of lower limb	Rheumatology
13 <sup>th</sup>	Skeletal affection of lower limb	Rheumatology
14 <sup>th</sup>	Revision	Course coordinator
15 <sup>th</sup>	Exam	Course coordinator

# Human Rights حقوق الإنسان

## محتوى المقرر

- الأصول التاريخية لحقوق الإنسان.
- المصادر الدولية لحقوق الإنسان العالمية والأقليمية .
- المصادر الوطنية لحقوق الإنسان.
- الأجهزة العالمية القائمة على حماية حقوق الإنسان.
- الحماية الوطنية لحقوق الإنسان.
- حقوق الإنسان في الشريعة الإسلامية .
- عرض لبعض طوائف حقوق الإنسان.