

## **Clinical Pathology Courses**

- 1- Clinical Pathology Diploma.
- 2- Biochemistry Diploma
- 3-Clinical Pathology pre-master basic.
- 4-175/1 Advanced Clinical hematology .
- 5- 176/1 Organ function tests and body and urine balance (advanced)
- 6-175/2 Advanced clinical pathology
- 7- 176/2 Organ function tests and body and urine balance (advanced)
- 8-177/1 Blood pictures and bone marrow examination (master advanced)
- 9-177/1 Blood pictures and bone marrow examination (PhD advanced)

### **(1) Clinical Pathology Diploma** (Courses – one academic year)

#### **Program courses:.**

	Lecture (hours/week)	Practical (hours/week)
Clinical pathology	3	2
General pathology	2	2
Microbiology	1	1
Parasitology	1	1
Biochemistry	1	2
Total	8	8

### **( 2) Biochemistry Diploma**

( full calendar year from December to November ).

#### **Program courses:.**

course	Total hours	lecture hours per week	Practical hours per week
Basics of Biochemistry and Metabolism	192	2	2

Clinical Biochemistry	144	1	2
Biochemistry of nucleic acids and molecular biology	96	1	1
Biochemistry of micro-organisms	96	1	1
Physiology of blood and body fluids	96	1	1
Clinical Pathology and parasitology	96	2	1
Total	768	8	8

### Clinical Pathology Pre-master (M.V.Sc)

#### **Program courses:.**

Topic	No. of hours		
	Lectures	Practical	Total
-Hematopoiesis.	4		4
-Red blood cell disorders.	36		36
-White blood cell disorders.	24		24
-Platelet and coagulation disorders	9		9
-Clinical enzymology	9		9
-Disorders of glucose, proteins and lipids metabolism.	9		9
-Disorders of minerals and electrolytes.	9		9
-Liver function.	6		6
-Muscle function.	3		3
-Renal function.	6		6
-Pancreatic function.	6		6
-Digestive function.	3		3
-Endocrinology.	6		6
-Tumor makers.	6		6
-Inflammatory biomarkers.	6		6
-Clinical pathology laboratory and equipments		12	12
-Sampling		12	12
-PCV and hemoglobin determination		10	10
-RBC count		12	12
-RBC indices and sedimentation rate		8	8
-WBC count		10	10
-Platelets count		8	8

-Blood film making and examination		<b>16</b>	<b>16</b>
-Laboratory tests for liver function		<b>16</b>	<b>16</b>
-Laboratory tests for renal function		<b>10</b>	<b>10</b>
-Laboratory tests for pancreatic function		<b>10</b>	<b>10</b>
--Laboratory tests for evaluation of enzymes		<b>4</b>	<b>4</b>
-Laboratory tests for evaluation of carbohydrates metabolism		<b>8</b>	<b>8</b>
- Laboratory tests for evaluation of proteins metabolism		<b>8</b>	<b>8</b>
- Laboratory tests for evaluation of lipids metabolism		<b>8</b>	<b>8</b>
- Laboratory tests for evaluation of minerals and electrolytes		<b>12</b>	<b>12</b>
- Urine analysis		<b>28</b>	<b>28</b>
<b>Total</b>	<b>144</b>	<b>192</b>	<b>336</b>

Subject	Code	Course title	No of hours/week	
			Lecture	Practical Lab
<b>Clinical pathology</b>		<b>Basic clinical pathology</b>		
	175/1	<b>75-Organ function tests and body and urine balance (advanced)</b>		
	176/1	<b>76- Advanced Clinical hematology and bone marrow examination</b>		

### Clinical Pathology PhD

**The principle courses for PhD in Clinical Pathology include:**

Subject	Code	Course title	No of hours/week	
			Lecture	Practical Lab
<b>Clinical pathology</b>	175/2	<b>75- Advanced clinical pathology</b>	2	2
	176/2	<b>76-Organ function tests and body and urine balance</b>	2	2
	177/2	<b>77- Clinical hematology and bone marrow examination</b>	1	2

