## **Course Description Form**

1. Course Name:						
Clinical Laboratory Training						
2. Course Code:						
Phcls23-5211-						
3. Semester / Year:						
2 <sup>nd</sup> semester/5 <sup>th</sup> year						
4 Description Propagation Date:						
5. Available Attendance Forms:						
Sheets signed by students						
6. Number of Credit Hours (Total) / Number of Units (Total)						
4 hours Practical/ 2 unites						
7. Course administrator's name						
Name: Assis. Prof. Dr. May Ata Alla Al Jammas						
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8. Course Objectives						
<b>Course Objectives</b> Learning students about various Tests applied in hospital labs						
(Biochemical, Hematological, Bacteriological, Virological, General						
urine exam, general stool exam). Showing them the normal values of						
each studied parameter, and teach them how to explain abnormalities						
in association with clinical symptoms and diseases.						
9. Teaching and Learning Strategies						
Strategy						

		Explain work principles+ Applying the lab examinations + making weekly reports + written and practical quiz+ Visiting specific laboratories in general hospitals to take a look on status situation in lab work field.							
10. Course Structure									
Week	Hours	Required Learning	Unit or subject name	Learning	<b>Evaluation</b>				
		Outcomes		memou	memou				
1	4	Importanceoflaboratorytests,howtomakesampling	Diagnostic test basis, collecting and transporting specimen.	Practical	Exam & report				
2	4	Glucose situation in the body	Biochemical test: fasting blood glucose, Post prandial glucose, oral glucose tolerance test.	practical	Exam & report				
3	4	Kidney function	Blood urea, blood creatinine, creatinine clearance, uric acid.	practical	Exam & report				
4	4	Blood lipids situation	Cholesterol, lipoprotein, triglycerides.	practical	Exam & report				
5	4	Liver function	Blood proteins, bilirubin.	practical	Exam & report				
6	4	Testing blood minerals	Calcium, inorganic phosphate, serum chloride.	practical	Exam & report				
7	4	Analysis of protein metabolism	Alkaline phosphatase, acid phosphatase, alanine aminotransferase, aspartate amino transferase, lactate dehydrogenase, creatinine phosphokinase.	practical	Exam & report				
8	4	Virology test	Serological tests: VDRL, ASO-titer, hepatitis test.	practical	Exam & report				
9	4	Serological tests for infections	C-reactive protein test, Rheumatic factor test, rosbengal test, typhoid fever test (Widal test), Pregnancy test, TORCH test.	practical	Exam & report				
10	4	Urinalysis	General urine exam, urine specimen collection.	practical	Exam & report				
11	4	Stool analysis	General stool exam, stool specimen collection	practical	Exam & report				
12	4	Blood analysis	Hematological tests:	practical	Exam &				

			RBC count, Ht indices, WBC o count.	o, PCV, RBC count, Platelet		report	
13	4	Blood analysis	Blood typing, Bleeding time, F	COMB test, ESR.	Practical	Exam & report	
14	4	Bacteriological and sensitivity test	Microbiologica and sensitivity methods, enrich VITEK II syste	l tests: culture test, staining ned media. m	practical	Exam & report	
15	4	Applications of Clinical Microbiology	Identifying the r lab techniques th in diagnostic mid correlate that w clinical prevalen	nost prevalent nat can be used crobiology and vith the most t infections	practical	Exam & report	
11. Course Evaluation							
<ul> <li>40 M Quest Practical: (10% Class activity and reports + 5% Oral exam. + 15% practical exam %10+written exam)</li> <li>60 M final exam</li> </ul>							
• 100 W total							
12. Le	earning a	nd Teaching Resource	es				
Required textbooks (curricular books, if any)				Oxford har	ndbook of C	linical and	

	Laboratory investigation. By: Drew Provan, 4 <sup>th</sup> ed. 2018.
Main references (sources)	Manual for laboratory training adopted by the department
Recommended books and references (scientific journals, reports)	Laboratory tests in general practice. K reports 59 C. By: Gillet Pierr, et al 2007
Web sites	https://labtestsonline.org.uk