

Laboratory Hematology and Transfusion Sciences

Degree: Doctor of Philosophy (PhD)

First semester	NO.	Code of the Course	Title of the Course	Number of units	
				Theoretical	Practical
	1		New Advances in Hematology	2	-
	2		Laboratory Animals and Animal Models of Hematological Disorders	0.5	0.5
	3		Principles of Epidemiology	2	-
	4		Medical Information Systems	0.5	0.5
	5		Advanced Immunohematology	2	1
	Total		9		

Second semester	NO.	Code of the Course	Title of the Course	Number of units	
				Theoretical	Practical
	1		Principles of Cell and Gene Therapy	0.5	0.5
	2		Transmitted Infectious Diseases from Blood and Blood Products	1	-
	3		Molecular Techniques and Cytogenetics in Diagnosis of Hematological Disorders	-	2
	4		Ethics and Professional Rights	1	-
	5		Immunocytochemistry Methods in Diagnosis of Hematological Disorders	-	1
	6		Tissue and Bone Marrow Culture Techniques	0.5	0.5
	7		Management of Laboratory Services	1	-
	Total		8		

Third semester	NO.	Code of the Course	Title of the Course	Number of units	
				Theoretical	Practical
	1		Diagnostic Approach of Hematological Disorders	1	1
	2		Quality Assurance and Quality Control in Hematology and Blood Banking	1	-
	3		Hematomorphology	-	3
	4		Internship and Clinical Training in Hematology	-	4
	Total		10		

Fourth semester	NO.	Code of the Course	Title of the Course	Number of units	
				Theoretical	Practical
	1		Thesis	18	
	Total		18		
The offered number of units in during of the entire course			45		

** At the end of the third semester of the training course, a comprehensive exam will be held.