Mansoura University Faculty of Pharmacy Professional Master of Immunolgy and Regenerative Medicine





جامعة المنصورة كلية الصيدلة برنامج الماجستير المهني في المناعة والطب التجددي

* البرنامج الدراسي:

One credit hour= one teaching hour or at least 2 hours of tutorials or practical workshop. Semester 1 :[course from IMR111 to IMR115, compulsory= 14 credits:

Code	Course Title	Credit (hrs)		Total	Exam	Exam
	MA	Lecture	Tutorial	credit	marks	Time (hr)
/			/Activities	hours		
IMR111	Basic Immunology	2	1	3	100	2
IMR112	Major Histocompatibility	2	>1	3	100	2
	Complex (MHC)	- V				\mathbb{A}
IMR113	Molecular Biology	2	1	3	100	2
IMR114	Immuno-Pharmacology	2	1	3	100	2
IMR115	Ethics	1	1	2	100	2
Total		9	5	14	500	3/18/1

Semester 1 : [courses from IMR116 to IMR118, elective =6 credits (2 courses only):

Code	Course Title	Credit (hrs)		Total	Exam	Exam
		Lecture	Tutorial	credit	marks	Time (hr)
			/Activities	hours		
IMR116	Lab safety	2	1/	3	100	2
IMR117	Care and Use of Experimental Animals	2	1	3	100	2
IMR118	Haematopoiesis	2	1	3	100	//2//

Semester 2: [courses from IMR121 to IMR124, compulsory= 12 credits:

Code	Course Title	Credit (hrs) Total			Exam	Exam
		Lecture	Tutorial	credit	marks	Time (hr)
			/Activities	hours	11/2/2	
IMR121	Advanced immunology	1 2 0	1	3	100	2
IMR122	Immunochemistry	2	1	3	100	2
IMR123	Stem cells	2	HIC	3	100	2
IMR124	Biostatistics	fix2	Men.	3	100	2
Total		8	4	12	500	
Mansoura University						

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Semester 2: [courses from IMR125 to IMR127, elective =6 credits: (2 only)

Semester 2. [courses from first125 to first127, electric—o credits. (2 om))						
Code	Course Title	Credit (hrs)		Total credit	Exam	Exam
	culty	Lecture	Tutorial /Activities	hours	marks	Time (hr)
IMR125	Infection control	2	1	3	100	2
IMR126	Bioinformatics	2	1	3	100	2
IMR127	Pharmaceutical chemistry and molecular modeling	2	1	3	100	2

Semester 3: [course from IMR 131 to IMR135, compulsory= 14 credits + 4 credits + 4 credit hours for project preparation]

Credit (hrs) Total Code Courses Title Exam Exam Time Lecture Tutorial credit marks hours (hr) Organ and tissue transplant **IMR** 3 4 100 1 3 131 **IMR** Cell Therapy 2 1 100 3 2 132 Advanced Techniques of Stem Cells **IMR** 2 1 3 100 2 133 IMR Immunomodulation 3 1 4 100 3 134 Total 10 4 14 500

Semester 4: Graduation project and practical training: 24 credit One credit hour= at least 2 hours of tutorials or practical workshop.

	mm. la	Credit	Total credit	
Code	Course Title	Writing&	Practical	hours
		Revision		
IMR 141	Graduation Project	V6 8	12	18
IMR 142	Practical training		6	6
Total hrs			TS	24
7750	Ura U	niv	31	

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