

Mansoura University Faculty of Pharmacy Professional Master of Immunology and Regenerative Medicine			جامعة المنصورة كلية الصيدلة برنامج الماجستير المهني في المناعة والطب التجديدي
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Study program

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 credit hours	Exam marks	Exam Time (hr)
		Lecture	Tutorial /Activities			
IMR111	Basic Immunology	2	1	3	100	2
IMR112	Major Histocompatibility Complex (MHC)	2	1	3	100	2
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	

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

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

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

Code	Course Title	Credit (hrs)		Total credit hours	Exam marks	Exam Time (hr)
		Lecture	Tutorial /Activities			
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 credit hours for project preparation**]

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

Code	Course Title	Credit (hrs)		Total credit hours
		Writing& Revision	Practical	
IMR 141	Graduation Project	6	12	18
IMR 142	Practical training	---	6	6
Total hrs				24