The curriculum for MSc Courses at the Faculty of Basic Sciences, Tarbiat Modares University

1st Semester

Course Title	Course Type	Number of units (theoretical + practical)	Instructor
Advanced quantum	Required	3	Dr.A.Bakouei
mechanics1	(Compulsory)		
Advanced electrodynamics1	Required	3	Dr. Z. Shomali
	(Compulsory)		
Advanced optics1	Optional	3	Dr. E. Irani
Total units of the semester:9			

2nd Semester

Course Title	Course Type	Number of units (theoretical + practical)	Instructor
Advanced statistical	Required	3	Dr.A.A.Asgari
mechanics1	(Compulsory)		
Computational Physics	Required	2	Dr.M. Ghodrat
	(Compulsory)		
Advanced Laser physics1	Required	3	Dr.E.Yazdani
	(Compulsory)		
Seminar	Required	2	Supervisor
	(Compulsory)		
Quantum optics1*	Optional	3	Dr.E. Irani
	(Compulsory)		
Total units of the semester:10+3(Option			

^{*} A joint course with PhD, that is offered in some semesters upon request of students based on their interest.

3rd Semester

Course Title	Course Type	Number of units (theoretical +	Instructor
		practical)	
Advanced Optics 2*	Optional	3	Dr.A.Moshaiee
Advanced Laser Physics2*	Optional	3	Dr.E.Yazdani
Nonlinear optics1*	Optional	3	Dr.R.Malekfar
Optics and Laser Laboratory	Required	1	Dr.Malekfar,D
	(Compulsory)		r.Moshaiee,Dr.
			Irani,Dr.Yazda
			ni
M.SC. Thesis	Required	6	
	(Compulsory)		
Total units of the semester:7+6(M.S.c.			

^{*} Choosing two courses from three optional courses

	Compensatory	Required	Optional	Thesis
		Compulsory		
Total units:	0	17	9	6