

POSTGRADUATE SPECIALIST TRAINING CONTENT

L= Lecture

Lab= Laboratory work

O=Oral examination

W=Written examination

P= Laboratory practice or problem solving class

Course		Exam	Credits	Hours/ semester	I. semester		II. semester	
					L	P	L	P
Optics and laser physics	FMLE602 Wave optics	O	3	15	10	5		
	FMLE610 Basics of laser physics	O	3	15	15			
	FMLE611 Laser physics seminar	-	3	15		15		
	FMLE712 Fundamentals of femtosecond and nonlinear optics	W	3	15	10	5		
	FBLE403 Vacuum physics	O	3	15	10	5		
	FMLE512 Applied optics	W	3	15	10	5		
Laser matter interactions	FBLE332 Basics of material processing with lasers	O	3	15	10	5		
	FMLE327 Lasers in biophysics	O	3	15			10	5
	FMLE627 Lasers in medicine	W	3	15			10	5
	FMLE825 Fundamentals of laser matter interactions	O	3	15			10	5
	FMLE332 Material processing with lasers	O	3	15			10	5
	FMLE812 From femtosecond lasers to attosecond physics	W	3	15			10	5
Lab-Work	FBLE229 Optics laboratory	-	3	20		20		
	FMLE859 Laser physics laboratory	-	3	20				20
	FMLE579 Project work	-	12	60		40		20
	Sum of lessons/credits:		54	280	65	100	50	65
	FMLE972 Thesis work	-	6	45				45
	Sums		60	325	165		160	