

KARABUK UNIVERSITY
THE INSTITUTE OF GRADUATE PROGRAMS

DEPARTMENT OF PHYSICS					
Course Pool of Philosophy of Doctorate Degree in Physics with Thesis					
COURSE CODE	COURSE NAME	CREDIT	ECTS	C/S	INSTRUCTOR
FIZ801	Advanced Quantum Mechanics I	3-0-3	8	S	Prof. Dr. Necla ÇAKMAK
FIZ802	Advanced Quantum Mechanics II	3-0-3	8	S	Prof. Dr. Necla ÇAKMAK
FIZ803	Advanced Statistical Mechanics I	3-0-3	8	S	Assist. Prof. Ulvi KANBUR
FIZ804	Advanced Statistical Mechanics II	3-0-3	8	S	Assist. Prof. Ulvi KANBUR
FIZ805	Nuclear Structure Theory I	3-0-3	8	S	Prof. Dr. Necla ÇAKMAK
FIZ806	Nuclear Structure Theory II	3-0-3	8	S	Prof. Dr. Necla ÇAKMAK
FIZ807	Group Theory and Applications To Physics I	3-0-3	8	S	Assist. Prof. Ulvi KANBUR
FIZ808	Group Theory and Applications To Physics II	3-0-3	8	S	Assist. Prof. Ulvi KANBUR
FIZ809	Crystal Structure Determination by X-Ray Diffraction Method I	3-0-3	8	S	Assist. Prof. Khalid Hadi Mahdi AAL-SHABEEB
FIZ810	Crystal Structure Determination by X-Ray Diffraction Method II	3-0-3	8	S	Assist. Prof. Khalid Hadi Mahdi AAL-SHABEEB
FIZ811	Particle Physics I	3-0-3	8	S	Prof. Dr. Necla ÇAKMAK
FIZ812	Particle Physics II	3-0-3	8	S	Prof. Dr. Necla ÇAKMAK
FIZ813	Radiation Physics For Nuclear Medicine	3-0-3	8	S	Assist. Prof. Khalid Hadi Mahdi AAL-SHABEEB
FIZ814	Advanced Neutron and Reactor Physics	3-0-3	8	S	Assist. Prof. Khalid Hadi Mahdi AAL-SHABEEB
FIZ815	Applied Superconductivity	3-0-3	8	S	Assist. Prof. Ulvi KANBUR
FIZ816	Biocompatible Material Production and Characterization	3-0-3	8	S	Assoc. Prof. Ahmet Mustafa ERER
FIZ817	Advanced Solid State Electronics	3-0-3	8	S	Assoc. Prof. Hüseyin YILDIRIM
FIZ818	Optoelectronics	3-0-3	8	S	Assoc. Prof. Hüseyin YILDIRIM
FIZ819	Spectroscopic Methods	3-0-3	8	S	Assist. Prof. Ulvi KANBUR
FIZ820	Surface Analysis Methods	3-0-3	8	S	Assoc. Prof. Ahmet Mustafa ERER
FIZ821	Large-Area Electronics	3-0-3	8	S	Assist. Prof. Ulvi KANBUR
FIZ822	Material Optical Properties	3-0-3	8	S	Assoc. Prof. Hüseyin YILDIRIM



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FIZ823	Optoelectronic Properties Of Amorphous Semiconductors	3-0-3	8	S	Assoc. Prof. Hüseyin YILDIRIM
FIZ824	Physics Of Semiconductor Devices	3-0-3	8	S	Assoc. Prof. Hüseyin YILDIRIM
FIZ825	Advanced Surface Physics	3-0-3	8	S	Assoc. Prof. Ahmet Mustafa ERER
FIZ826	Advanced Measurement Techniques in Plasma	3-0-3	8	S	Assist. Prof. Ferhat BOZDUMAN
FIZ827	Selected Topics In Mathematical Physics	3-0-3	8	S	Assoc. Prof. Hüseyin YILDIRIM
FIZ897	PhD Seminar	0-2-0	8	Z	All Instructors
FIZ898	Phd. Thesis Research	0-1-0	8	Z	All Instructors
FİZ8098D	Course Field of Specialization	4-0-0	8	Z	All Instructors
FİZ8098T	Thesis Field of Specialization	4-0-0	8	Z	All Instructors
LUEE801	Scientific Research Techniques and Scientific Ethics	3-0-3	8	Z	Assoc. Prof. Hüseyin YILDIRIM

