

**OSMANIYE KORKUT ATA UNIVERSITY PHYSICS DEPARTMENT 2019-  
2020 ACADEMIC YEAR PHD COURSES**

**2019-2020 FALL SEMESTER I. SEMESTER COURSES**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>	
FZK-601	Field Course (Compulsory)	4	0	0	6	
FZK-603	Quantum Mechanics II (Compulsory)	3	0	3	6	
FZK-6XX	Elective Course I (*)	3	0	3	6	
FZK-6XX	Elective Course II (*)	3	0	3	6	
FZK-6XX	Elective Course III (*)	3	0	3	6	
<b>TOPLAM</b>					12	30

**ELECTIVE COURSES**

		<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>
FZK-607	PhD Qualification Preparation	0	0	0	24
FZK-609	Thorium Fired New Generation Reactors	3	0	3	6
FZK-611	Neutron Techniques	3	0	3	6
FZK-613	Nano Scale Device Production	3	0	3	6
FZK-615	Advanced Semiconductor Physics	3	0	3	6
FZK-617	Superconducting Materials I	3	0	3	6
FZK-619	Advanced Superconducting Physics I	3	0	3	6
FZK-621	Magnetic Properties of Superconducting Materials I	3	0	3	6
FZK-623	Application Areas of Superconducting Materials I	3	0	3	6

**2019-2020 SPRING SEMESTER II. SEMESTER COURSES**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>
FZK-602	Field Course (Compulsory)	4	0	0	6
FZK-666	Seminar (Compulsory)	0	0	0	6
FZK-6XX	Elective Course I (*)	3	0	3	6
FZK-6XX	Elective Course II (*)	3	0	3	6
FZK-6XX	Elective Course III (*)	3	0	3	6
<b>TOPLAM</b>				9	30

**ELECTIVE COURSES**

		<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>
FZK-606	PhD Qualification Preparation	0	0	0	24
FZK-608	Nuclear Fusion Energy	3	0	3	6
FZK-610	Medical Physics	3	0	3	6
FZK-612	Thin Film Applications	3	0	3	6
FZK-614	Compound Semiconductors	3	0	3	6
FZK-616	Superconducting Materials II	3	0	3	6
FZK-618	Advanced Superconducting Physics II	3	0	3	6
FZK-620	Magnetic Properties of Superconducting Materials II	3	0	3	6
FZK-622	Application Areas of Superconducting Materials II	3	0	3	6

**2ND YEAR**

<b>2019-2020 SPRING SEMESTER III. SEMESTER COURSES</b>						
<b>CODE</b>	<b>COURSE TITLE</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>	<b>RESPONSIBLE FACULTY MEMBER</b>
FZK-691	Field Course (Compulsory)	4	0	0	6	Faculty Members
FZK-699	PhD Thesis (Compulsory)	0	0	0	24	Faculty Members
<b>TOTAL</b>					30	

<b>2019-2020 SPRING TERM IV. SEMESTER COURSES</b>						
<b>CODE</b>	<b>COURSE TITLE</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>	<b>RESPONSIBLE FACULTY MEMBER</b>
FZK-692	Uzmanlık Alan Dersi (Zorunlu)	4	0	0	6	Faculty Members
FZK-699	Doktora Tezi (Zorunlu)	0	0	0	24	Faculty Members
<b>TOTAL</b>					30	

**3RD YEAR**

<b>2019-2020 SPRING SEMESTER V. SEMESTER COURSES</b>						
<b>CODE</b>	<b>COURSE TITLE</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>	<b>RESPONSIBLE FACULTY MEMBER</b>
FZK-691	Uzmanlık Alan Dersi (Zorunlu)	4	0	0	6	Faculty Members
FZK-699	Doktora Tezi (Zorunlu)	0	0	0	24	Faculty Members
<b>TOTAL</b>					30	

<b>2019-2020 SPRING SEMESTER VI. SEMESTER COURSES</b>						
<b>CODE</b>	<b>COURSE TITLE</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>	<b>RESPONSIBLE FACULTY MEMBER</b>
FZK-692	Uzmanlık Alan Dersi (Zorunlu)	4	0	0	6	Faculty Members
FZK-699	Doktora Tezi (Zorunlu)	0	0	0	24	Faculty Members
<b>TOTAL</b>					30	

**4TH YEAR**

<b>2019-2020 SPRING SEMESTER VI. SEMESTER COURSES</b>						
<b>CODE</b>	<b>COURSE TITLE</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>	<b>RESPONSIBLE FACULTY MEMBER</b>
FZK-691	Uzmanlık Alan Dersi (Zorunlu)	4	0	0	6	Faculty Members
FZK-699	Doktora Tezi (Zorunlu)	0	0	0	24	Faculty Members
<b>TOTAL</b>					30	

<b>2019-2020 SPRING SEMESTER VIII. SEMESTER COURSES</b>						
<b>CODE</b>	<b>COURSE TITLE</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>	<b>RESPONSIBLE FACULTY MEMBER</b>
FZK-692	Uzmanlık Alan Dersi (Zorunlu)	4	0	0	6	Faculty Members
FZK-699	Doktora Tezi (Zorunlu)	0	0	0	24	Faculty Members
<b>TOTAL</b>					30	