

**AZƏRBAYCAN RESPUBLİKASI ELM VƏ TƏHSİL  
NAZİRLİYİ  
BAKİ DÖVLƏT UNİVERSİTETİ**

**BAKALAVRİAT PİLLƏSİ ÜÇÜN**

**İXTİSAS- Fizika**

**FƏNN – Yarımqeçirici struktur və cihazlar**

**BAKİ 2024**

**Mövzular üzrə saatların bölgüsü**

№	Mövzular	Saatlar		
		Cəmi 60	Müh. 30	Lab. 30
1	Metal – Semiconductor contacts and heterojunctions. Metal - semiconductor contact - Schottky junction			
2	Ohmic contacts Heterojunctions		2	
3	Electron-hole junction (p-n junction) p - n junction: formation and basic parameters Types of p - n junction		2	
4	The capacitance of the p - n junction		2	
5	Breakdown the p - n junction			
6	Diodes. Semiconductor diodes		2	
7	Rectifier diodes Pulse diodes		2	
8	Stabilitron		2	
9	Tunnel diode and inverted diode		2	
10	Varicap		2	
11	Transistors		2	
12	Transistors		2	
13	Bipolar transistor		2	
14	Drift transistor		2	
15	Unipolar transistors		2	
	<b>Laboratory work</b>			
1	Determination of the type of conductivity in a semiconductor			3
2	Study of the temperature dependence of the specific resistance of semiconductors			3
3	Determination of the concentration of charge carriers by the Hall effect method			3
4	Study of the temperature dependence of the Hall coefficient			3
5	Study of VAX of p-n junction			3
6	Study of VFX of p-n junction			3
7	Determination of absorption coefficient in a substance			3
8	Study of Dinistor's VAX			3
9	Study of the VAX of the stabilitron			3
10	Study of thyristor VAX			3

