

**DEPARTMENT OF PHYSICS**  
**(%100 ENGLISH CURRICULUM)**

<b>1<sup>st</sup> Year / Fall Semester</b>				<b>1<sup>st</sup> Year / Spring Semester</b>			
<b>Lecture Code</b>	<b>Name of Lecture</b>	<b>Credit</b>	<b>ECTS</b>	<b>Lecture Code</b>	<b>Name of Lecture</b>	<b>Credit</b>	<b>ECTS</b>
CHEM 101	General Chemistry I	3	5	CHEM 102	General Chemistry II	3	5
CHEM 113	General Chemistry Laboratory I	1	1	CHEM 114	General Chemistry Laboratory II	1	1
FS 101	Occupational Health and Safety I	1	1	FS 102	Occupational Health and Safety II	1	1
FS 103	Career Planning	1	2				
HIS 101	Principles of Atatürk and the History of Turkish Revolution I	2	2	HIS 102	Principles of Atatürk and the History of Turkish Revolution II	2	2
INF 100	Introduction to Computer Systems	3	3	MATH 102	Calculus II	5	7
MATH 101	Calculus I	5	7	MATH 116	Linear Algebra	3	5
PHYS 103	Physics Laboratory I	1	2	PHYS 104	Physics Laboratory II	1	2
PHYS 111	Elementary Physics I	5	8	PHYS 112	Elementary Physics II	5	8
			<b>31</b>				<b>31</b>
<b>2<sup>nd</sup> Year / Fall Semester</b>				<b>2<sup>nd</sup> Year / Spring Semester</b>			
<b>Lecture Code</b>	<b>Name of Lecture</b>	<b>Credit</b>	<b>ECTS</b>	<b>Lecture Code</b>	<b>Name of Lecture</b>	<b>Credit</b>	<b>ECTS</b>
ENG 111	English for Business Life	2	2	ENG 112	Academic English	2	2
MATH 215	Differential Equations	3	5	INF 101	Introduction to Programming	3	4
PHYS 203	Waves and Optics	5	7	PHYS 202	Modern Physics	4	7
PHYS 204	Classical Mechanics I	4	6	PHYS 206	Electromagnetic Theory I	4	6
PHYS 215	Mathematical Methods in Physics I	5	8	PHYS 216	Mathematical Methods in Physics II	3	5
XXXxxx	Non-Technical Elective I	2	3	XXXxxx	Technical Elective I	3	5
			<b>31</b>				<b>29</b>
<b>3<sup>th</sup> Year / Fall Semester</b>				<b>3<sup>th</sup> Year / Spring Semester</b>			
<b>Lecture Code</b>	<b>Name of Lecture</b>	<b>Credit</b>	<b>ECTS</b>	<b>Lecture Code</b>	<b>Name of Lecture</b>	<b>Credit</b>	<b>ECTS</b>
PHYS 208	Physics Laboratory III	1	3	PHYS 302	Statistical Mechanics I	4	5
PHYS 247	Thermodynamics	2	4	PHYS 322	Quantum Mechanics II	4	5
PHYS 303	Quantum Mechanics I	4	8	PHYS 406	Physics Laboratory IV	1	3
PHYS 311	Electronics I	5	8	PHYSXXX	Department Elective II	3	5
PHYSXXX	Department Elective I	3	5	PHYSXXX	Department Elective III	3	5
TUR 101	Turkish I	2	2	PHYSXXX	Department Elective IV	3	5
				GTU101	Extracurricular Activities	1	3
				TUR 102	Turkish II	2	2
			<b>30</b>				<b>33</b>
<b>4<sup>th</sup> Year / Fall Semester</b>				<b>4<sup>th</sup> Year / Spring Semester</b>			
<b>Lecture Code</b>	<b>Name of Lecture</b>	<b>Credit</b>	<b>ECTS</b>	<b>Lecture Code</b>	<b>Name of Lecture</b>	<b>Credit</b>	<b>ECTS</b>
PHYS 401	Solid State Physics I	4	6	PHYS 492	Graduation Project	4	10
PHYS 416	Computer Applications in Physics	3	5	PHYSXXX	Department Elective VII	3	5
PHYS 436	Atomic and Molecular Physics	4	6	PHYSXXX	Department Elective VIII	3	5
PHYSXXX	Department Elective V	3	5	PHYSXXX	Department Elective IX	3	5
PHYSXXX	Department Elective VI	3	5	XXXxxx	Technical Elective II	3	5
XXXxxx	Non-Technical Elective II	2	3		VEYA		<b>30</b>
				PHYS 491	Industrial Applications		20
				PHYS 492	Graduation Project	4	10
			<b>30</b>				<b>30</b>