

# SOLID MATERIALS PROPERTIES I

<b>1</b>	Course Title:	SOLID MATERIALS PROPERTIES I	
<b>2</b>	Course Code:	KRM5129	
<b>3</b>	Type of Course:	Optional	
<b>4</b>	Level of Course:	Second Cycle	
<b>5</b>	Year of Study:	1	
<b>6</b>	Semester:	1	
<b>7</b>	ECTS Credits Allocated:	6.00	
<b>8</b>	Theoretical (hour/week):	3.00	
<b>9</b>	Practice (hour/week):	0.00	
<b>10</b>	Laboratory (hour/week):	0	
<b>11</b>	Prerequisites:		
<b>12</b>	Language:	Turkish	
<b>13</b>	Mode of Delivery:	Face to face	
<b>14</b>	Course Coordinator:	Prof. Dr. Mürsel Alper	
<b>15</b>	Course Lecturers:	Doç. Dr. Mürşide Hacismailoğlu	
<b>16</b>	Contact information of the Course Coordinator:	Prof. Dr. Mürsel ALPER, malper@uludag.edu.tr Fen-Ede. Fak., Fizik Bölümü, Oda No: 041	
<b>17</b>	Website:		
<b>18</b>	Objective of the Course:	To study structural,dynamic, mehchanical, electrical, optical and magnetic properties of solids	
<b>19</b>	Contribution of the Course to Professional Development:	Leraning production, designing of materials used common in Daily-life and investigate their properties. Improving production and designing the materials with the desired properties.	
<b>20</b>	Learning Outcomes:		
		1	Learning classificaiton of solids according to the physical properties
		2	Learning structural properties and calculations them
		3	Learning Dynamic properties and relations between dynamic and structural properties.
		4	Learning mechanical properties.
		5	learning relations between Dynamic, mechanic and structural properties
		6	Learning thermal properties and their calculations.
		7	Learning electrical properties and their calculations
		8	Learning magnetic properties and their calculations
		9	
		10	
<b>21</b>	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Classifacation of solids according their properties.		
2	Structural properties		
3	determination and calculation of structural properties.		
4	Dynamical and mechanical properties.		



<b>ÖK5</b>	3	4	5	0	0	4	0	0	0	0	0	0	0	0	0	0
<b>ÖK6</b>	2	4	3	3	3	2	0	0	0	0	0	0	0	0	0	0
<b>ÖK7</b>	4	2	3	4	2	4	0	0	0	0	0	0	0	0	0	0
<b>ÖK8</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**LO: Learning Objectives    PQ: Program Qualifications**

<b>Contribution Level:</b>	<b>1 very low</b>	<b>2 low</b>	<b>3 Medium</b>	<b>4 High</b>	<b>5 Very High</b>
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