

WEST UNIVERSITY OF TIMIȘOARA  
FACULTY OF PHYSICS  
MASTER DEGREE: **PHYSICS AND TECHNOLOGY OF ADVANCED MATERIALS**  
1 st Year

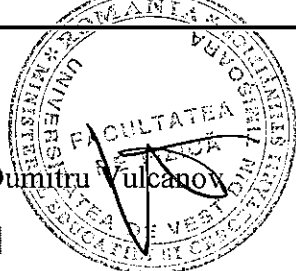
**EDUCATIONAL PLAN**
**I-st year 2015/2016**

Nr crt	Course	Cod	1 st Semester (14 week)					2nd Smester (14 week)				
			C	S	L/P	Ex	cr	C	S	L/P	ex	cr
1	Complements of theoretical physics	TS 1101	2	2	-	E	8	-	-	-	-	-
2	Complements of Molecular and atomic physics	TS 1102	2	2	-	E	8	-	-	-	-	-
3	Complements of solid state physics and statistical physics	TS 1103	2	2	-	E	7	-	-	-	-	-
4	Complements of the material physics	TS 1104	2	2	-	E	7	-	-	-	-	-
5	Transport phenomena	PTAM 1205	-	-	-	-	-	2	2	-	E	7
6	Crystal growth methods	PTAM 1206	-	-	-	-	-	2	1	-	E	6
7	Relaxation processes in advanced materials	PTAM 1207	-	-	-	-	-	2	-	1	E	6
	<b>Option 1 chose one of two</b>											
8	<b>Magnetic active materials</b>	PTAM 1208	-	-	-	-	-	2	-	2	E	7
	Laser Crystals											
9	Specialization practice (projects, etc)	PTAM 1209	-	-	-	-	-	-	-	2	V	4
Total courses/-week			8	8	-	4E	30	8	3	5	4E/ 1V	30
			16/24					16/24				

Dean,

Ph. D. Dumitru Vulcanov

PAGINA |


 Director  
of the specialty,  
Phd Daniel Vizman



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WEST UNIVERSITY OF TIMIȘOARA  
FACULTY OF PHYSICS  
MASTER DEGREE: **PHYSICS OF CRYSTALLINE MATERIALS**  
2 nd Year

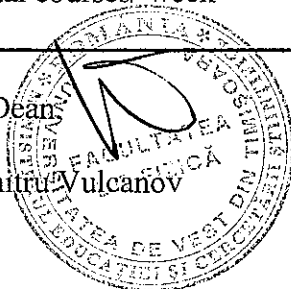
**EDUCATIONAL PLAN**

II-nd 2015/2016

Nr crt	Course	Cod	3 rd Semester (14 week)					4 th week (14 week)				
			C	S	L/ P	Ex	cr	C	S	L/P	ex	cr
1	Computational methods in the materials science	PM 2301	2	1	-	E	6	-	-	-	-	-
2	Defects in crystals	PM 2302	2	-	2	E	6	-	-	-	-	-
3.	Scientific Research Methodology	PM 2303	1	1	-	E	4	-	-	-	-	-
<b>Option 2 chose one of two</b>												
4	Data acquisitions and processing	PM 2304	1	1	-	V	4	-	-	-	-	-
	Materials for solar cells											
<b>Option 3 chose one of two</b>												
5	<b>Chemical and physical properties of crystals</b>	PM 2305	2	2	-	E	6	-	-	-	-	-
	Electric and dielectric properties of crystals											
6	Specialization practice (projects, etc)	PM 2306	-	-	2	V	4	-	-	-	-	-
7	Solid state physics complements -2	PM 2407	-	-	-	-	-	2	-	2	E	6
8	Characterization of complex physical systems	PM 2408	-	-	-	-	-	2	-	2	E	6
<b>Option 4 chose one of two</b>												
9	<b>Diagnostics and analytical methods based on energetic particles and radiations</b>	PM 2409	-	-	-	-	-	2	1	-	E	6
	Fundamentals of optical spectroscopy											
10	Specialization practice (projects, etc)	PM 2410	-	-	-	-	-	-	-	6	V	12
Total courses/ week			<b>8</b>	<b>5</b>	<b>4</b>	<b>4E/ 2V</b>	<b>30</b>	<b>6</b>	<b>1</b>	<b>10</b>	<b>3E/ 1V</b>	<b>30</b>
			<b>17</b>					<b>17</b>				

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