## Information sheet for the course Material and Energy Balances

Faculty: Faculty of Industrial	Technologies i	n Púchov		
Course unit code: <i>PP-P-25</i>		Course unit t	itle: Material and	Energy Balances
Type of course unit: compulse	ry			
Planned types, learning activi	-	ning methods:		
<i>Lecture:</i> 2 hours weekly/26 hou			o face	
Seminar: 2 hours weekly/26 ho				
Laboratory tutorial: 0		,		
Number of credits: 5				
Recommended semester: 4 <sup>th</sup>	semester in the	2 <sup>nd</sup> year full-tim	ρ	
		2 <sup>nd</sup> year part-tim		
<b>Degree of study:</b> the 1 <sup>st</sup> degree			<b>c</b>	
Course prerequisites: <i>PP-P-2</i>				
Assessment methods:	1 unuumentui.	s of Chemistry		
The course unit ends with exact the course unit ends with exact the course of the cour	am which ha	s two narts th	porptical and co	mputational Fo
graduation of course unit is ne		-		-
computational part. Student of		•	<i>v</i> 1	v
from two computing tests.	nums me cour	us jor computation	παι ράτι 05 ελάπ	uuring semeste
Learning outcomes of the cou	rea unit.			
0		nd operation of	loulations of un	it process an
Student knows the principles	oj design d	na operation ca	icululions of uni	i processes un
<i>technological equipments.</i> C <b>ourse contents:</b>				
<i>1. Material balances</i>				
2. Energy balances				
3. Fluid flow				
4. Heat transfer				
5. Evaporation				
6. Reactors				
7. Mass transfer				
8. Adsorption and absorption				
9. Distillation process				
10. Extraction				
11. Drying				
12. Crystallization				
Recommended of required re	0			
BAFRNEC, M. a kol.: Chemick				
DOJČANSKÝ, J., LONGAUER				Centrum, 2000.
LODES, A., LANGFELDER, I.:				
BAFRNCOVÁ, S. a kol.: Chemi	ické inžinierst	vo – príklady a úle	ohy. Bratislava : S	STU, 1996.
Language: Slovak				
Remarks:				
Evaluation history:				
A B	С	D	Е	FX
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0.0 0.0	0.0	0.0	0.0	0.0

Supervisor: doc. Ing. Ján Vavro, PhD.