

Ministry of Education

UNIVERSITY OF PETROSANI



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Course Syllabus

Academic year: 2018-2019

Institution	University of Petroşani
Faculty	Mechanical and Electrical Engineering
Field of study	Industrial engineering
Level	Bachelor
Program of study	Machine Building Technology

Course	Numerical methods
Code	2BB3OD20
Year of study (semester)	II (III)
Number of hours	70
Number of credits	5
Professor	Lecturer eng,Ph.D. ZAMORA Adriana

No.	Topic
1.	Cinematic couplers. Structure of mechanisms.
2.	The kinematics of the bars. Examples.
3.	Cinetostatic of bar mechanisms. Examples.
4.	Mechanisms with cam. Analysis and synthesis.
5.	Dynamics of mechanisms. Operating irregularity and speed adjustment. Balancing the mechanisms.
6.	Symmetric problems of bars.
7.	Mechanisms gears.