

## Course Syllabus

Academic year: 2018-2019

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

Course	<b>Basis of experimental research</b>
Code	2BB7OD56
Year of study (semester)	IV (VII)
Number of hours	56
Number of credits	4
Professor	Assoc. Prof., Ph.D. PRAPORGESCU Gabriel

No.	Topic
1.	General concepts of experimental research and techniques for measuring mechanical quantities.
2.	Chains and measurement techniques used in experimental research.
3.	Captors used in experimental research.
4.	Electrical circuits for connecting transducers and captors.
5.	Signal transmission cables.
6.	Apparatus used in measuring systems.
7.	Measurement of forces and torques.
8.	Measuring displacements and speeds.
9.	Measuring pressures.



Ministry of Education

## UNIVERSITY OF PETROSANI

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10.	Temperature measurement.
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