

## 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>Machining and cutting tools</b>
Code	2BB5OD41
Year of study (semester)	III (V)
Number of hours	42
Number of credits	4
Professor	Assoc. Prof., Ph.D. DUMITRESCU Iosif

No.	Topic
1.	Theory of cutting tools, Elements of the cutting process, Cutting tool geometry, Cutting tool wear, Materials used in the construction of cutting tools.
2.	Turning, planing and mortising tools, Turning knives, Construction angles of lathe in different planes, Calculation of lathe knife, Planing and mortising knives, Profiled knives.
3.	Brooches, Brochure schemes,, Broaches for the processing of interior surfaces, Broaches for smoothing, Screws, Screws for helical grooves, Broaches for processing of external surfaces.
4.	Cutting, bending, grooving and bending, Geometrical and constructive elements of helicoidal drills, Sharpening of helicoidal drills, Extensions, Drill bits, Drill bits, Drill bits.

5.	Mills, Milling cutter geometry, Milling cutters, Milling cutters, Milling cutters.
6.	Thread cutting tools, Thread cutting, Normal and special threads for threading, Thread milling cutters, Construction troughs.
7.	Cylindrical toothed wheel gearing tools, Disc-module mills, Finger prongs module, Profiled knives, Profile generation in evolving, Snail-module, Comb Knives, Wheel Knives.