

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	Hydraulic and pneumatic drives
Code	2BB6OD49
Year of study (semester)	III (VI)
Number of hours	56
Number of credits	4
Professor	Assoc. Prof., Ph.D. VATAVU Sorin

No.	Topic
1.	Hydraulic drives (Fluid drives for drives: operating principle, classification, parameters; Structure of fluid-action systems and typical circuits; Hydraulic volumetric machines (pumps and motors); Hydraulic distribution device; Hydraulic adjusting device; Auxiliary elements: reservoirs, ducts, filters, accumulators; Illustrations of hydraulic systems for driving machine tools).
2.	Pneumatic drives (Pneumatic rotary engines and pneumatic cylinders, Pneumatic distribution and adjustment device, Elements for compressed air preparation)