

#### 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	Descriptive geometry
Code	2BB2OF04
Year of study (semester)	I (I)
Number of hours	42
Number of credits	3
Professor	Lecturer eng,Ph.D. ZOLLER Iosif Liviu

No.	Topic
1.	Fundamental problems of the point: reference systems with two and three projection planes; the purge of points in the dials and the reference spikes; particular positions of points; point symmetry.
2.	Fundamental problems of the right: determination and representation of the right; the traces of the straight line, the division of the right into the regions, the intersection of the straight with the bisecting planes; particular positions of the straight line; relative positions of two straight lines (parallel, straight, straight, disjoint), right angle theorem, visibility in the purge.
3.	Fundamental Problems of the Plan: Determining and Representing the Plan; straight and dots located on planes in space; the construction of the traces of the plane with the help of two competing ribs, two parallel lines, one straight and one outer point, three noncolar points; particular straight lines of the plane (straight, straight, straight, straight); drop lines and their properties; particular positions of the planes; relative positions of two planes (parallel planes, competing planes); intersections of planes.

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4.	The right and the plane in space: relative positions of the straight to a plane in space (straight parallel to a plane in space, rivals competing with a plane in space, straight perpendicular to a plane in space).
5.	Methods of descriptive geometry: method of changing projection planes, rotation method, rebate method and increase of rebate.
6.	Poliedre: polyhedral representation, visibility criteria; flat plane by polyhedra; the intersection of straight polyhedrons; the development of polyhedra; intersections of polyhedra.