## Course Syllabus

Academic year: 2018-2019

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Petroșani</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>Mechanical and Electrical Engineering</td>
</tr>
<tr>
<td>Field of study</td>
<td>Industrial engineering</td>
</tr>
<tr>
<td>Level</td>
<td>Bachelor</td>
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<tr>
<td>Program of study</td>
<td>Machine Building Technology</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Descriptive geometry</th>
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<tbody>
<tr>
<td>Code</td>
<td>2BB2OF04</td>
</tr>
<tr>
<td>Year of study (semester)</td>
<td>1 (I)</td>
</tr>
<tr>
<td>Number of hours</td>
<td>42</td>
</tr>
<tr>
<td>Number of credits</td>
<td>3</td>
</tr>
<tr>
<td>Professor</td>
<td>Lecturer eng, Ph.D. ZOLLER Iosif Liviu</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>No.</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>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.</td>
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<tr>
<td>2.</td>
<td>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.</td>
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<tr>
<td>3.</td>
<td>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.</td>
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<td>4.</td>
<td>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).</td>
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<td>6.</td>
<td>Poliedre: polyhedral representation, visibility criteria; flat plane by polyhedra; the intersection of straight polyhedrons; the development of polyhedra; intersections of polyhedra.</td>
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