

<b>Title:</b>	<b>Surface coatings and metallization of plastics</b>
<b>Lecture hours:</b>	15
<b>Study period: (summer/winter)</b>	Summer/winter
<b>Number of credits:</b>	2
<b>Assessment methods:</b>	Test
<b>Language of instruction:</b>	English
<b>Prerequisites:</b>	None
<b>Course content:</b>	The definition of surface, surface layer and coating. Methods of surface modification. Adhesion and cohesion. Theories of adhesion. Organic and inorganic coatings. Methods for metallization of plastics. Electroless metallization. Properties of metalized plastics. Test methods for coatings.
<b>Learning outcomes:</b>	Student will gain knowledge of the type of protective coatings (metallic, composite, organic coatings) and the technology of forming protective coatings. Student will also acquire knowledge related to the metalizing of polymeric materials.
<b>Name of lecturer:</b>	Dr inż Krzysztof Moraczewski
<b>Contact (email address):</b>	kmm@ukw.edu.pl
<b>Literature:</b>	<ol style="list-style-type: none"> <li>1. Arthur A. Tracton: Coatings Materials and Surface Coatings, CRC Press, 2006.</li> <li>2. Paul Swaraj: Surface Coatings: Science and Technology, 2nd Edition, Wiley, 1996.</li> <li>3. K.L. Mittal: Metallized Plastic: Fundamentals and Applications (Plastics Engineering), CRC Press, 1997.</li> </ol>