

Course code																																	
Type and description	EC - elective subjects from the discipline of Chemical sciences																																
ECTS credit	1																																
Course name	Special Applications of Colorants																																
Course name in Polish	Barwniki i pigmenty do celów specjalnych																																
Language of instruction	English																																
Course level	8 PRK																																
Course coordinator	dr hab. Radosław Podsiadły																																
Course instructors	dr hab. Radosław Podsiadły																																
Delivery methods and course duration	<table border="1"> <thead> <tr> <th></th> <th>Lecture</th> <th>Tutorials</th> <th>Laboratory</th> <th>Project</th> <th>Seminar</th> <th>Other</th> <th>Total of teaching hours during semester</th> </tr> </thead> <tbody> <tr> <td>Contact hours</td> <td>0</td> <td>0</td> <td>0</td> <td>5</td> <td>0</td> <td>0</td> <td>5</td> </tr> <tr> <td>E-learning</td> <td>no</td> <td>no</td> <td>no</td> <td>no</td> <td>no</td> <td>no</td> <td>no</td> </tr> <tr> <td>Assessment criteria (weightage)</td> <td>0</td> <td>0</td> <td>0</td> <td>100%</td> <td>0</td> <td>0</td> <td>100%</td> </tr> </tbody> </table>		Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester	Contact hours	0	0	0	5	0	0	5	E-learning	no	no	no	no	no	no	no	Assessment criteria (weightage)	0	0	0	100%	0	0	100%
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Course objective	<p>Course objective</p> <p>Enabling the acquisition of knowledge in the field of the dyes and pigments to solve scientific problems arising during the PhD dissertation.</p>																																
Learning outcomes	<p>After the course student:</p> <ol style="list-style-type: none"> 1. selects the right colorants to solve the scientific problem related to your PhD thesis; (W1 P8S_EG) 2. plans and performs experiments with use of different type of dyes or pigments; (U1 P8S_UW; U3 P8S_UO; U4 P8S_UU) 3. presents and interprets results of his experiments (U1 P8S_UW). 																																
Assessment methods	<p>Learning outcomes 1,2 and 3</p> <p>A written report of experiments conducted within a project with special attention focused on aim of the study, theoretical background and interpretation of the results; an assessment of the correctness of the experiments and data interpretation. Presentation of project.</p> <p>An assessment for prepared and presented report constitutes 100% of the final grade.</p>																																
Prerequisites	Fundamental knowledge of physics, chemistry and spectroscopy																																
Course content with delivery methods	<p>PROJECT</p> <p>An own topic proposed by a student and related to a subject of his PhD thesis.</p>																																
Basic reference materials	<ol style="list-style-type: none"> 1. Industrial Dyes - Chemistry, Properties, Applications - ed. K. Hunger - WILEY-VCH Verlag, Weinheim, 2003. 2. Industrial Organic Pigments - eds W. Herbst, K. Hunger - WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim, 2004 																																

Other reference materials	Scientific articles devoted to modern application of colorants in analytical, photopolymerization, PTD, etc
Average student workload outside classroom	15 h
Comments	
Last update	July 2020