**Methods in environmental sciences and nature conservation (2020/2021, winter semester)**

Meetings on Thursdays

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| **Topic** | **Tutor** | **Type of the classes, duration**  | **Place, room number** | **Date** | **Hours** | **Reports from the classes due to** | **Reports from the classes send to** | **Modifications to the form of the classes (due to COVID-19)** |
| Field experiment design and material sampling.Floristic and phytosociological studies.Nature valorization for conservational and investment purposes. | Piotr Mleczko, Kaja Rola, Szymon Zubek | field, 10 h | Kraków-Pychowice, meeting at the main entrance to the Institute of Botany at 9:00 | 8 October 2020 | 9:00-16:30 | - | - | Field  |
| Determination of the abundance, species richness and composition of selected groups of root-inhabiting fungi. | Szymon Zubek | laboratory, 5 h | Institute of Botany, 0.15 | 15 October 2020 | 9:00-12:45 | 22 October 2020 | szymon.zubek@uj.edu.pl | Laboratory (in small sub-groups) |
| Soil physicochemical analyses. Measurement of element concentrations in plants. | Maria Niklińska | laboratory, 5 h | Institute of Environmental Sciences, 2.1.9, 2.1.10., 2.1.12 | 22 October 2020 | 9:00-12:45 | - | - | Laboratory (in small sub-groups) |
| Assessment of soil microbial parameters and soil processes. | Maria Niklińska | laboratory, 5 h | Institute of Environmental Sciences, 2.1.9, 2.1.10., 2.1.12 | 29 October 2020 | 9:00-12:45 | 5 November 2020 | maria.niklinska@uj.edu.pl | Laboratory (in small sub-groups) |
| Determination of the abundance, species richness and composition of macroscopic fungi. | Piotr Mleczko | laboratory, 5 h | Institute of Botany, 0.15 | 5 November 2020 | 9:00-12:45 | 12 November 2020 | piotr.mleczko@uj.edu.pl | On-line |
| Influence of infection with entomopathogenic fungi, *Beauveria* sp., on chirps of male crickets – part I. | Paulina Kramarz | laboratory, 2.5 h | Institute of Environmental Sciences, 2.0.7 | 12 November 2020 | 9:00-11:00 | - | - | Laboratory (in small sub-groups) |
| Influence of infection with entomopathogenic fungi, *Beauveria* sp., on chirps of male crickets – part II. | Paulina Kramarz | laboratory, 2.5 h | Institute of Environmental Sciences, 2.0.7 | 19 November 2020 | 9:00-11:00 | 26 November 2020 | paulina.kramarz@uj.edu.pl | Laboratory (in small sub-groups) |
| Application of plant tissue culture for the conservation of endangered species. | Marzena Popielarska-Konieczna  | laboratory, 5 h | Institute of Botany, Dept. of Plant Cytology and Embryology, Gronostajowa 9, rooms 2.03 and 2.06 | 26 November 2020 | 9:00-12:45 | 3 December 2020 | m.popielarska-konieczna@uj.edu.pl | On-line |
| Advanced methods and tools for botanical and mycological data analysis – part I. | Kaja Rola | computer laboratory, 2.5 h | Institute of Botany, 0.12 | 3 December 2020 | 9:00-11:00 | - | - | On-line |
| Advanced methods and tools for botanical and mycological data analysis – part II. | Kaja Rola  | computer laboratory, 2.5 h | Institute of Botany, 0.12 | 10 December 2020 | 9:00-11:00 | - | - | On-line |
| Advanced methods and tools for botanical and mycological data analysis – part III. | Kaja Rola  | computer laboratory, 5 h | Institute of Botany, 0.12 | 17 December 2020 | 9:00-12:40 | 7 January 2021 | kaja.skubala@uj.edu.pl | On-line |
| Estimating solitary bee fitness and nesting success | Hajnalka Szentgyörgyi  | laboratory, 5 h | Institute of Botany, 0.47,  | 7 January 2021 | 9:00-12:45 | 14 January 2021 |  hajnalka.szentgyorgyi@uj.edu.pl | On-line presentation with home work |