



INSTITUTE OF DENDROLOGY

POLISH ACADEMY OF SCIENCES

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Informacje ogólne/General information	Nazwa przedmiotu/ Name of the subject	Dendrologia/ Dendrology
	Jednostka prowadząca/Unit offering the subject	Instytut Dendrologii Polskiej Akademii Nauk Institute of Dendrology, Polish Academy of Sciences
	Język przedmiotu/Language of the subject	Język angielski/ English
	Limit miejsca w grupach/Limit of the places in groups	
	Terminy zajęć/Time of classes	19.04, 26.04, 10.05, 17.05, 24.05, 31.05, 7.06, 14.06
Information about the subject	Typ przedmiotu/Type of the subject	Obowiązkowy/ obligatory
	Imię i nazwisko koordynatora przedmiotu/Person coordinating the subject	prof. dr hab. Grzegorz Iszkuło dr Kinga Nowak
	Imię i nazwisko osób prowadzących/First and last names of people conducting the subject	Pracownicy naukowi Instytutu Dendrologii PAN/ Academics of Institute of Dendrology PAS
	Imię i nazwisko osób egzaminujących/First and last name of the examiner or the creditor	Pracownicy naukowi Instytutu Dendrologii PAN/ Academics of Institute of Dendrology PAS; osoba zaliczająca/ credits: prof. dr hab. Grzegorz Iszkuło
	Sposób realizacji/Implementation method	Wykłady stacjonarne na terenie Instytutu Dendrologii PAN w Kórniku / Stationary lectures at the Institute of Dendrology of the Polish Academy of Sciences in Kórnik
	Wymagania dodatkowe/Additional Requirements	Wiedza z zakresu podstaw biologii/ Knowledge of the basics of biology
	Liczba punktów ECTS/Number of ECTS* credits	4 ECTS
	Metody dydaktyczne/Didactic methods used	Wykład z prezentacją multimedialną. Rozpoznawanie roślin drzewiastych. Dyskusja dydaktyczna, student: praca własna z literaturą/

		Lecture with multimedia presentation. Identification of woody plants. Didactic discussion, student: own work with the literature
	Zakres tematów/ Scope of topics	Basics of morphology. Methods of preserving herbarium materials. The importance of herbaria. Characteristics and identification of coniferous woody plants. Characteristics and identification of trees and shrubs in winter dormancy. Characteristics and identification of deciduous woody plants. Collections of the Kórnik Arboretum. Arboriculture and methods of protection of old trees. Basics of dendrochronology. Trees and shrubs of the Mediterranean region. Biology and identification of taxa of the genus <i>Rubus</i>.
	Materiały dodatkowe/ Additional materials	
Efekty kształcenia/ Learning outcomes	Efekty kształcenia dla przedmiotu ujęte w kategorii: wiedzy, umiejętności i kompetencji społecznych/ Learning outcomes for the subject included in the category of knowledge, skills and social competences	<u>Knowledge</u> P8S_WG_1. The student gains knowledge about the morphology and systematics of woody plants. P8S_WG_2 The student is familiar with the basic knowledge of plant ecology, geographical range, origin, and importance in ecosystems and green areas. P8S_WG_3. The student broadens his knowledge of the past and today's role of the botanical garden, dendrological garden and herbarium. <u>Skills</u> P8S_UW_1. The student knows methods of plant identification. P8S_UW_2. The student identifies basic taxa of woody species on the basis of shoots at the stage of winter dormancy, leafy shoots, and generative organs (flowers, fruits, cones). P8S_UU_3. The student has basic knowledge about the ecology and geographical range (especially with the range limit in Poland) of woody species. P8S_UW_5. The student knows alien, native, invasive and protected species in the flora of Poland. <u>Social competence</u> P8S_KK Student understands the need for constant updating of knowledge from recognized sources of scientific information on dendrology and is ready to verify knowledge from various sources.

		P8S_KR Student is aware of diverse opinions on challenges in dendrology and can communicate with them, knows and appreciates the rules of cultural discussion. P8S_KO Student works in a group and organizes safe exercises, participates attentively in class and applies recommendations of lecturers.
	Metody sprawdzenia efektów kształcenia/ Assessment methods & criteria	Assessment methods: - written test– P8S_W and P8S_K - discussions and active participations in lectures P8S_U
Warunki zaliczenia i literatura/ Credit requirements and literature	Forma i warunki zaliczenia/ Form and conditions of completing the course	exam: written test
	Literatura/ Literature	Seneta W, Dolatowski J, Zieliński J. 2021. Dendrologia. Warszawa: Wydawnictwo Naukowe PWN. Krussmann G. 1978. Handbook of broadleaved trees and shrubs. Verlag Paul Parey. Berlin and Hamburg Krussmann G. 1983. Handbook of conifers. Verlag Paul Parey. Berlin and Hamburg Luboš Úradní L. 2014. Forest dendrology. Faculty of Forestry and Wood Technology. https://akela.mendelu.cz/~xcepl/inobio/skripta/Forest_Dendrology.pdf Monografie Instytutu Dendrologii z serii Nasze Drzewa Leśne. Mattheck, Claus, and Helge Breloer. The body language of trees: a handbook for failure analysis. HMSO Publications Centre, 1994. Rutkowski L. 2006. Klucz do oznaczania roślin naczyniowych Polski niżowej. Wyd. Naukowe PWN, Warszawa.