



SZKOŁA GŁÓWNA  
GOSPODARSTWA  
WIEJSKIEGO

## Temperate Fruit Crops

### Educational subject description sheet

#### Basic information

<b>Field of study</b> Course Offer for exchange students - second cycle studies, including uniform master studies (MA programmes)		<b>Didactic cycle</b> 2024/25	
<b>Speciality</b> -		<b>Subject code</b> PWMPWM2S_D.B100000.06342.24	
<b>Organizational unit</b> Course Offer for exchange students		<b>Lecture languages</b> english	
<b>Study level</b> second cycle studies, including uniform master studies (MA programmes)		<b>Mandatory</b> Elective subjects	
<b>Study form</b> full-time studies		<b>Block</b> Basic subjects	
<b>Education profile</b> General academic		<b>Disciplines</b>	
<b>Coordinator</b>	Sebastian Przybyłko		
<b>Teacher</b>	Sebastian Przybyłko		
<b>Period</b> Winter semester	<b>Examination</b> Pass with grade	<b>Number of ECTS points</b> 3	
	<b>Activities and hours</b> Lecture: 15 Laboratory exercises: 15		

## Goals

Code	Goal
C1	The aim of the course is to provide students with knowledge about the temperate fruit species and their cultivars, commonly cultivated and those which have a chance to be introduced into commercial cultivation.
C2	To acquaint students with the history of fruit growing, role of fruits in human life and culture, the nutritional and dietary values of fruit crops, and cultivation requirements of temperate fruit plants.

## Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
<b>Knowledge - Student knows and understands:</b>			
W1	knows the species and cultivars of fruit plants, their origin and their uses		Test (written or computer based)
W2	knows at an advanced level the biological and morphological features of fruit and trees, varieties of pome and stone species and berry shrubs		Test (written or computer based)
W3	has advanced knowledge of the impact of fruit and its substances on human health		Test (written or computer based)
<b>Skills - Student can:</b>			
U1	can recognize and evaluate species and cultivars of fruit plants		Test (written or computer based)
U2	can adapt the type and advanced methods of fruit production to environmental conditions		Test (written or computer based)
U3	is able to make decisions independently in the fruit production at the professional level		Presentation, Test (written or computer based)
U4	can work individually and in a team		Presentation, Test (written or computer based)
<b>Social competences - Student is ready to:</b>			
K1	take care for the natural environment		Test (written or computer based)
K2	take care of the social, professional and ethical responsibility for the quality of the produced fruit and the condition of the natural environment		Test (written or computer based)

## Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Discussing the role of fruits in human life and culture. Defining the Pomology as a science focuses on fruit species. Taxonomy, centres of origin of the most important temperate fruit species. Trees and berry plants cultivated in temperate climate conditions and their cultivars.	W1, W2, W3, K1, K2	Lecture

No.	Course content	Subject's learning outcomes	Activities
2.	Distinctive traits of plants, fruit structure, its nutritional value, as well as history, breeding and cultivation of chosen cultivars of the following fruit species: apple, pear, plum, peach, apricot, cherry, currants, raspberry, strawberry, highbush blueberry, and some other less known ones.	W1, U1, U2, U3, U4	Laboratory exercises

### Course advanced

Activities	Methods of conducting classes
Lecture	Lecture
Laboratory exercises	Laboratory (experiment), learning by experiment, Observation

Activities	Examination method	Percentage
Lecture	Test (written or computer based)	80%
Laboratory exercises	Presentation	20%

Activities	Credit conditions
Lecture	Passing the exam on at least 51%.
Laboratory exercises	Giving presentation and answering questions during discussion on the presented issue.

### Literature

#### Obligatory

1. Janick J., R.E. Paull. 2008. The Encyclopedia of Fruit and Nuts. Cambridge University Press, Cambridge.
2. Rieger M. 2006. Introduction to Fruit Crops. The Haworth Press, Inc. New York-London-Oxford
3. Ajai O.C., Ajayi O.C., Akinnifesi F.K. and others. 2007. Indigenous fruit trees in the tropics: domestication, utilization and commercialization. CABI.

#### Optional

1. Ferre D.C., Warrington I.J. 2003. Apples Botany, Production and Uses. CABI Publishing.
2. Hancock J.F. 2020. Strawberries. CABI Publishing.
3. Nakasone H.Y. , Paull R.E. 2010. Tropical Fruits. CABI.
4. Duarte O., Paull R.E. 2015. Exotic Fruits and Nuts of the New World. CABI.
5. Husaini A.M., Neri D. 2016. Strawberry, Growth, Development and Diseases. CABI.

### Calculation of ECTS points

Activity form	Activity hours*
Lecture	15
Laboratory exercises	15
Preparation for the test	20

Self-study on the content covered in class	20
Preparation of a multimedia presentation	15
Preparation for exercises	5
<b>Student workload</b>	<b>Hours</b> 90
<b>Number of ECTS points</b>	<b>ECTS</b> 3

\* hour means 45 minutes