



SZKOŁA GŁÓWNA  
GOSPODARSTWA  
WIEJSKIEGO

## Power tools for woodworking

### Educational subject description sheet

#### Basic information

<b>Field of study</b> Wood Technology	<b>Didactic cycle</b> 2024/25
<b>Speciality</b> -	<b>Subject code</b> TDRTDS_D.320K.05408.24
<b>Organizational unit</b> Faculty of Wood Technology	<b>Lecture languages</b> english
<b>Study level</b> first cycle (engineering degree)	<b>Mandatory</b> Elective subjects
<b>Study form</b> full-time studies	<b>Block</b> Major subjects
<b>Education profile</b> General academic	<b>Disciplines</b> Forest science
<b>Coordinator</b>	Radosław Auriga
<b>Teacher</b>	Radosław Auriga
<b>Period</b> Semester 6	<b>Examination</b> Pass with grade
	<b>Activities and hours</b> Laboratory exercises: 15
	<b>Number of ECTS points</b> 1

#### Goals

Code	Goal
C1	The aim of the course is to familiarize students with power tools for carpentry work and systems of solutions supporting carpentry work.

## Subject's learning outcomes

<b>Code</b>	<b>Outcomes in terms of</b>	<b>Effects</b>	<b>Examination methods</b>
<b>Knowledge - Student knows and understands:</b>			
W1	the principle of operation of power tools dedicated to carpentry work	TD_K3_W03, TD_K3_W04_inz	Oral credit, Project
W2	processes occurring during cutting, drilling, milling, joining, grinding and dust removal	TD_K3_W03, TD_K3_W04_inz	Oral credit
<b>Skills - Student can:</b>			
U1	select the appropriate tool and device for a specific type of technological operation	TD_K3_U05_inz, TD_K3_U06_inz	Project
U2	make a critical analysis of the functioning of power tools dedicated to carpentry work	TD_K3_U06_inz	Oral credit
<b>Social competences - Student is ready to:</b>			
K1	use power tools dedicated to carpentry work in a responsible and conscious manner	TD_K3_K01	Project

## Study content

<b>No.</b>	<b>Course content</b>	<b>Subject's learning outcomes</b>	<b>Activities</b>
1.	Use of corded and cordless power tools. Organization of a work station with power tools. Classification and characteristics of power tools. Cutting equipment (jigsaws, plunge saws, saws); drills and screwdrivers; surface finishing equipment (grinders); power tools for connecting elements; milling equipment; power tools for gluing edges, dust collection systems dedicated to power tools. Selection of tools for a specific type of machining.	W1, W2, U1, U2, K1	Laboratory exercises

## Course advanced

<b>Methods of conducting classes</b>			
Laboratory exercises	Discussion, Presentation, Problem solving		
<b>Activities</b>	<b>Examination method</b>		<b>Percentage</b>
Laboratory exercises	Project		50%
Laboratory exercises	Oral credit		50%

<b>Credit conditions</b>	
Laboratory exercises	Design of a simple carpentry object.

## Literature

### Obligatory

- Catalogs and materials provided by power tool manufacturers

### Calculation of ECTS points

Activity form	Activity hours*
Laboratory exercises	15
Preparing the project	15
Student workload	Hours
	30
Number of ECTS points	ECTS
	1

\* hour means 45 minutes

## Effects

Code	Content
TD_K3_K01	Absolwent jest gotów do krytycznej oceny posiadanej wiedzy i odbieranych treści
TD_K3_U05_inz	Absolwent potrafi projektować, zgodnie z zadaną specyfikacją, oraz wykonywać typowe dla kierunku studiów proste urządzenia, obiekty, systemy lub realizować procesy, używając odpowiednio dobranych metod, technik, narzędzi i materiałów
TD_K3_U06_inz	Absolwent potrafi dokonać krytycznej analizy sposobu funkcjonowania i ocenić istniejące rozwiązania techniczne, w szczególności urządzenia, systemy i procesy w zakresie technologii drewna, z uwzględnieniem aspektów systemowych i pozatechnicznych, w tym aspektów etycznych
TD_K3_W03	Absolwent zna i rozumie zagadnienia z zakresu technologii, narzędzi i materiałów stosowanych przy rozwiązywaniu zadań inżynierskich z zakresu szeroko pojętego drzewnictwa
TD_K3_W04_inz	Absolwent zna i rozumie podstawowe zagadnienia dotyczące procesów zachodzących w cyklu życia urządzeń, obiektów i systemów technicznych stosowanych w przemyśle drzewnym