



Co-funded by the  
Erasmus+ Programme  
of the European Union



# IO3: “Adapting and developing learning materials”

Jelena Gledić  
University of Belgrade

UPSKILLS Consortium:



&  
with financial support from



*Fit for the job market? Teaching transferable skills to future language experts*

Graz, 5 July 2022

# UPSKILLS IO3: Learning content

Overall objective: the production of learning content to be presented to students of language-related subjects

Four components:

1. An overview of existing materials ✓
2. The creation of new learning content
3. The formulation of student research projects
4. The dissemination of the created learning content

# An overview of existing materials

*Overview of learning materials aimed to educate students of languages and linguistics for the 21st century job market*

**276** resources that are already available and could possibly be integrated in UPSKILLS with a focus on three broad topics:

1. research skills
2. data acquisition skills
3. data handling skills

and two cross-cutting components:

1. linguistic theory
2. research and data management

Searching public platforms, European infrastructures, other projects and own materials

# Skill requirements vs. coverage in the existing material

SUBTOPIC	Status in needs analysis			Status in materials coverage	
	<i>Presence in university curricula</i>	<i>Emphasis in the literature review</i>	<i>Presence in job adverts</i>	<i>Overall coverage</i>	<i>General vs. lang/ling</i>
Research methods	<b>MEDIUM</b>	<b>HIGH</b>	<b>HIGH</b>	<b>MEDIUM-HIGH</b>	<b>general</b>
Analytical thinking	<b>LOW</b>	<b>HIGH</b>	<b>HIGH</b>	<b>MEDIUM</b>	<b>general</b>
Project management	<b>LOW</b>	<b>HIGH</b>	<b>HIGH</b>	<b>MEDIUM</b>	<b>general</b>
Programming	<b>LOW-MEDIUM</b>	<b>HIGH</b>	<b>HIGH</b>	<b>HIGH</b>	<b>general &amp; lang/ling</b>
Collecting data from human subjects	<b>LOW</b>	<b>MEDIUM</b>	<b>LOW</b>	<b>LOW-MEDIUM</b>	<b>general</b>
Text processing	<b>LOW-MEDIUM</b>	<b>HIGH</b>	<b>HIGH</b>	<b>MEDIUM-HIGH</b>	<b>general &amp; lang/ling</b>
Statistics	<b>MEDIUM</b>	<b>HIGH</b>	<b>HIGH</b>	<b>HIGH</b>	<b>general</b>
Machine learning	<b>LOW</b>	<b>HIGH</b>	<b>HIGH</b>	<b>HIGH</b>	<b>general</b>
Data repositories and standards	<b>LOW</b>	<b>LOW</b>	<b>LOW-MEDIUM</b>	<b>LOW-MEDIUM</b>	<b>general</b>
Linguistic theory	<b>MEDIUM</b>	<b>MEDIUM</b>	<b>MEDIUM</b>	<b>MEDIUM</b>	<b>lang/ling</b>
Research and data management	<b>LOW</b>	<b>MEDIUM</b>	<b>LOW-MEDIUM</b>	<b>LOW</b>	<b>general</b>

# Reaching classrooms

1. Existing materials - overview
  2. Modular Moodle unit blocks
  3. Research projects
- Disseminated across partner institutions and beyond

## RESEARCH SKILLS

Introduction to scientific research  
Analytical thinking and problem solving  
Project management

## DATA HANDLING SKILLS

Introduction to machine learning  
Data standards and repositories  
Language data science



## DATA ACQUISITION SKILLS

Introduction to programming  
Text and speech processing  
Collecting data from human participants

## CROSS-CUTTING COMPONENTS

Linguistic theory  
Research management software



Co-funded by the  
Erasmus+ Programme  
of the European Union



# Thank you!

<https://upskillsproject.eu>

<https://twitter.com/UpskillsProject>

<https://www.facebook.com/upskillsproject>

UPSKILLS Consortium:



&  
with financial support from



*Fit for the job market? Teaching transferable  
skills to future language experts*

Graz, 5 July 2022