- → RESEARCH OF SECONDARY SOURCES
- → PRELIMINARY SELECTION OF SUITABLE ORGANISMS

→ RESEARCH OF DESIGN FOR THE **BLIND AND PARTIALLY SIGHTED** PEOPLE

1. RESEARCH **BEFORE THE INTERNATIONAL** SUMMER **SCHOOL** 

## LECTURES

- $\rightarrow$  Marine organisms
- → Scientific illustration
- $\rightarrow$  Assistive technologies
- $\rightarrow$  Cognitive aspects of inclusive illustration
- $\rightarrow$  Perception of the blind and partially sighted people
- → Translating visual elements into tactile graphics
- $\rightarrow$  Inclusive design and empathy

## **FIELD TRIPS**

- → Piran Aquarium of the Science Centre of the University of Primorska
- → Marine Biology Station of the National Institute of Biology

#### **EXPERIENTIAL LEARNING WITH A** TYPHLOPEDAGOGUE

→ Visual impairment workshop with active participation and hands-on experience ......

# 2. INTERNATIONAL **SUMMER SCHOOL**

## **OBSERVATION IN THE FIELD**

#### VISUALIZATION

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- ·······→ Sketching (analogue, digital)  $\rightarrow$  Study drawing (learning about the
  - anatomy and life of marine organisms)
  - → Habitat illustration (marine organisms in their habitat)
- 0 → Scientific illustration (illustration of a typical representative of the selected species)
  - → Stylization and reduction of illustration (conversion to black and white illustration)
  - → Graphic technique (linocut prints in black and without colour)

#### **OBSERVATION AND VALIDATION OF THE RESULTING MATERIAL**

#### MAKING RECOMMENDATIONS ON **DESIGN AND ILLUSTRATION FOR** THE BLIND AND PARTIALLY SIGHTED PEOPLE

- → Collecting secondary material
- → Observing and recording insights gained from practice

# 3. **BUILDING ON THE FIRST PHASE**

#### **PREPARATION OF ILLUSTRATIONS FOR ANALOGUE AND DIGITAL PRINTS**

- $\rightarrow$  Corrections of the subjects' anatomical elements
- $\rightarrow$  Adjustments to line drawings in black and white in line with recommendations
- $\rightarrow$  Unification of all motifs
- $\rightarrow$  Printing in linocut on an alternative printing press
- $\rightarrow$  Preparation of the model in modelling software (from line drawing to surfaces, correction, rounding of edges)
- $\rightarrow$  Adjustments to the model according to the chosen 3D printer
- → Enlargement of the organism detail: model preparation in the modelling software (emphasis on realism)
- → 3D printing of all tactile models

### $\rightarrow$ Designing test methods

- $\rightarrow$  Checking the adequacy of methods with experts
- → Planning in-depth interviews with selected target groups
- $\rightarrow$  Questionnaire for professional staff and other stakeholders
- $\rightarrow$  Expert guided tours of exhibitions
- > Implementation of the testing

# 4. **TESTING THE FIRST PHASE**

#### → Preparing materials for the exhibition

- $\rightarrow$  Exhibition design
- $\rightarrow$  Setting up the exhibition

- of materials

