

## What is *Professional Development & Learning*?

Professional development and learning refer to how teachers (or other relevant educational stakeholders) are being prepared for the instruction regarding the learning tasks, pedagogical objectives and experience, implementation and guidance.

## Guidelines for *Professional Development & Learning Component*

### **Think about and pay attention to the professional development of teachers.**

- Enable Teacher Professional Development (TPD) by offering step-by-step training.
- Use Design Thinking (DT) as a framework to educate teachers and reframe their engagement with curriculum planning.
- Use technological pedagogical content knowledge (TPACK) as a framework<sup>1</sup> to prepare teachers with related knowledge to integrate DT with Emerging Technologies (ET).
- Prepare exemplary lesson material for teachers during TPD.
- Point teachers to project supporting materials related to the use of ET available on the Exten.(D.T.)<sup>2</sup> project website<sup>2</sup>.
- Identify the level of readiness of individual teachers in terms of technology and understanding of DT and point them to the right set of training resources.

### **Pay attention to teachers teaching practices.**

- Build consensus on curricular goals and values.
- Identify the learning goals, and plan the activities to allow pauses and time for reflection and creativity.
- Coach students and instruct them on the learning tasks, pedagogical objectives and experience.
- Communicate the learning goals to the students in the beginning, including what DT is and what the stages of it are.
- Identify the teaching methods best suited to the material and the students.
- Provide meaningful and timely feedback to students to improve learning.
- Create reflection sessions that allow students to participate, find new, creative ways of learning, and get excited about learning.

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<sup>1</sup> <https://educationaltechnology.net/technological-pedagogical-content-knowledge-tpack-framework/>

<sup>2</sup> <https://extendt2.eu/>

- Focus on skill development and self-reflection through the online sharing of digital productions and the collection of feedback.
- Focus on group formation and dynamics before the activity.
- Monitor and evaluate group progress by analysing students' digital constructions using ET as the output of the DT process.
- Identify key 21st-century skills that may emerge from the activity, including collaboration, argumentation, taking individual responsibility in groups, creativity and innovation, coding/programming, and interactions.