

Questionnaires for self-assessment

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Questionnaire 1: Self-assessment tool on teacher educators' development of digital creative teaching competences)

Demographic Data

A. Gender ☐ Male ☐ Female ☐ Other	B. Age ☐ Up to 25 years old ☐ 26 – 30 years old ☐ 31-40 years old ☐ 41-50 years old ☐ 51-60 years old ☐ 61 and above years old	C. Experience as teacher educator for: ☐ Pre-service teachers ☐ In-service teachers ☐ Both pre-service & in-service teachers ☐ N.A.	D. Years of experience as teacher educator ☐ 1-5 years ☐ 6-10 years ☐ 11-15years ☐ 16-20 years ☐ 21 and above years ☐ N.A.
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Please read each statement carefully and report the degree to which you believe that the statement is appropriate or in any case comes close to describing your perceptions and practice on digital creativity teaching remembering that: 1 = strongly disagree and 5 = strongly agree, while the other scores represent intermediate degrees of agreement.

1. **I feel confident that I can use digital technologies (e.g., social networks and media) to collaborate with different members of the educational community**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

2. **I use to continually reflect on and critically assess my own digital creative pedagogical practice**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

3. **I have an interest in investigating about current research, innovations and best practices in the field of creative teaching & learning mediated by digital technologies**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

4. **I feel confident that I can identify and select digital resources to generate creative pedagogical ideas**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

5. **I am capable of creating, modifying and sharing digital resources**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

6. **I am capable of building a creative learning environment supported by digital technologies** (i.e. Creating of a positive climate and promoting exploration and invention)

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

7. **I feel confident that I can apply creative teaching strategies** (e.g. inquiry-based learning, project-based learning, design-based learning, game-based learning, modelling-based learning)

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

8. **I feel confident that I can facilitate classroom interactions that foster students' creativity** (i.e. foster synergistic collaboration, stimulate expression and dialogue, encourage democratic practices in digital teaching & learning environments)

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

9. **I am capable of creating authentic learning opportunities by linking curricular concepts to real life situations**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

10. **I feel confident that I can relate different sources of information, media and tools: encourage students to build knowledge based on different perspectives**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

11. **I feel confident that I can actively engage students in assessment processes which foster metacognition and critical thinking** (e.g. self-evaluation and peer-evaluation)

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

12. **I am capable of using technologies to evaluate students' creativity by applying criteria** (e.g., fluency, flexibility, originality, elaboration) **and tools** (e.g., digital rubrics)

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

13. **I feel confident that I can select and use digital tools and strategies which call for learners' interest and motivation**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

14. **I feel confident that I can encourage my students to take an active role in learning, work on their own learning needs, organize tasks, self-regulate and solve problems autonomously through digital and physical fabrication**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

15. **I feel confident that I can personalize the learning process by using digital technologies and strategies which address students' specific needs**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

16. **I feel confident that I can ensure accessibility to learning resources and activities, for all learners**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

17. **I feel confident that I can promote students' divergent thinking** (i.e. students' ability to generate and apply original ideas and solutions by forming remote associations, conceptual combinations, and approaching problems from different angles)

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

18. **I feel confident that I can promote students' convergent thinking** (i.e. students' ability to evaluate and select ideas using decision-making strategies, so to produce the best possible answers)

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

19. **I use to adopt a "maker culture" in my courses which fosters students' creative expression of ideas, experiences and emotions in a range of media, through the creation of digital or tangible objects**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

20. **I use to encourage students to articulate information needs, find information and resources in digital environments**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

21. **I feel confident that I can help my students participate safely, effectively, critically and responsibly in the digital world**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

22. **I feel confident that I can use digital technologies to promote students' openness to experience, responsible risk taking, tolerance of ambiguity, learning from failure, and viewing challenges as possibilities for learning**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

23. **I feel confident that I can stimulate my students to solve problems and model systems, as well as understand mindsets and behaviors, by drawing on the concepts fundamental to computer science and design thinking.**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

Questionnaire 2: Questionnaire for investigating educators' attitudes towards creativity

Demographic Data

E. Gender

- ☐ Male
☐ Female
☐ Other

F. Age

- ☐ Up to 25 years old
☐ 26 – 30 years old
☐ 31-40 years old
☐ 41-50 years old
☐ 51-60 years old
☐ 61 and above years old

G. Experience as teacher educator for:

- ☐ Pre-service teachers
☐ In-service teachers
☐ Both pre-service & in-service teachers
☐ N.A.

H. Years of experience as teacher educator

- ☐ 1-5 years
☐ 6-10 years
☐ 11-15years
☐ 16-20 years
☐ 21 and above years
☐ N.A.

Please read each statement carefully and report the degree to which you believe that the statement is appropriate or in any case comes close to describing your perceptions on creativity remembering that: 1 = strongly disagree and 5 = strongly agree, while the other scores represent intermediate degrees of agreement.

1. **If there were more creative people, more problems would be solved.**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

2. **Innovative ideas can move society forward.**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

3. **We really need creative people.**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

4. **Without new and creative ideas, our country will be left behind**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

5. **New ideas must be generated to enact positive change.**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

6. **When individuals approach problems in unique ways, they add to humanity's knowledge of the world.**
[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree
7. **Old problems can be solved with new ideas.**
[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree
8. **Inventive thoughts are necessary for growth in any field of study.**
[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree
9. **Creativity can save lives.**
[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree
10. **I believe thinking creatively is the most important skill for students to learn.**
[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

Questionnaire 3: Questionnaire for investigating the impact of the pilot implementation on teacher educators' confidence regarding the integration of educational technologies in their profession

Demographic Data

I. Gender ☐ Male ☐ Female ☐ Other	J. Age ☐ Up to 25 years old ☐ 26 – 30 years old ☐ 31-40 years old ☐ 41-50 years old ☐ 51-60 years old ☐ 61 and above years old	K. Experience as teacher educator for: ☐ Pre-service teachers ☐ In-service teachers ☐ Both pre-service & in-service teachers ☐ N.A.	L. Years of experience as teacher educator ☐ 1-5 years ☐ 6-10 years ☐ 11-15years ☐ 16-20 years ☐ 21 and above years ☐ N.A.
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Please read each statement carefully and report the degree to which you believe that the statement is appropriate or in any case comes close to describing your relationship with teaching technologies, remembering that: 1 = strongly disagree and 5 = strongly agree, while the other scores represent intermediate degrees of agreement.

1. **I feel confident that I have the necessary skills to use instructional technology for instruction.**
[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree
2. **Using instructional technology in the classroom will make it easier for me to teach.**
[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree
3. **Effectively using instructional technology in the classroom will increase my status among my colleagues.**
[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree
4. **I have an interest in reading articles or books about instructional technology.**
[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree
5. **Using instructional technology in the classroom will increase my effectiveness as a teacher.**

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

6. I am interested in working with instructional technology tools.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

7. Using instructional technology in the classroom will make my teaching more exciting.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

8. I feel confident that I can effectively use instructional technology in my teaching.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

9. Effectively using instructional technology in the classroom will increase my sense of accomplishment.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

10. I have an interest in listening to a famous instructional technologist speaking about effective use of instructional technology in the classroom.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

11. Using instructional technology in the classroom will make my teaching more satisfying.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

12. I feel confident that I can regularly incorporate appropriate instructional technologies into my lessons to enhance student learning.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

13. Effectively using instructional technology in the classroom will increase my colleagues' respect of my teaching ability.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

14. I have an interest in attending instructional technology workshops during my teaching career.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

15. My colleagues will see me as competent if I effectively use instructional technology in the classroom.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

16. I feel confident that I can select appropriate instructional technology for instruction based on curriculum standards-based pedagogy.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

17. I have an interest in working on a project involving instructional technology concepts.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

18. Using instructional technology in the classroom will increase my productivity.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

19. I feel confident that I can teach relevant subject matter with appropriate use of instructional technology.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

20. I am interested in learning about new educational software.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

21. I feel confident that I can help students when they have difficulty with instructional technology.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

Questionnaire 4: Questionnaire for investigating the impact of the pilot implementation on teacher educators' self-efficacy on own pedagogical practices & perceptions on students' potential

Demographic Data

M. Gender	N. Age	O. Experience as teacher educator for:	P. Years of experience as teacher educator
☐ Male	☐ Up to 25 years old	☐ Pre-service teachers	☐ 1-5 years
☐ Female	☐ 26 – 30 years old	☐ In-service teachers	☐ 6-10 years
☐ Other	☐ 31-40 years old	☐ Both pre-service & in-service teachers	☐ 11-15years
	☐ 41-50 years old	☐ N.A.	☐ 16-20 years
	☐ 51-60 years old		☐ 21 and above years
	☐ 61 and above years old		☐ N.A.

Please read each statement carefully and report the degree to which you believe that the statement is appropriate or in any case comes close to describing your perceptions and practice of teaching for creativity, remembering that: 1 = strongly disagree and 5 = strongly agree, while the other scores represent intermediate degrees of agreement.

1. All students can develop original ideas.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

2. Creativity is an ability that only a few students possess

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

3. All students can grow in their creative problem solving skills.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

4. All students can contribute innovative thoughts to a discussion

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

5. All students can learn to produce something innovative

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

6. All students have the potential to change the world with their creative ideas.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

7. I am capable of helping students to become more flexible in their thinking.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

8. I am capable of enhancing my students' abilities to take meaningful academic risks.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

9. I am capable of fostering creative problem solving in my classroom

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

10. Teaching creative thinking is one of my strengths.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

11. I am capable of increasing my students' abilities to create unique solutions.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

12. I am capable of developing a classroom atmosphere that welcomes imagination.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

13. I am capable of promoting flexible thinking.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

14. I am capable of helping my students to see the world from new perspectives.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

15. I am capable of teaching my students to find connections in seemingly unconnected ideas.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

16. I have helped many students to become more creative.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

17. I am capable of increasing the quantity of original thoughts my students have.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

18. I am capable of helping students to elaborate on their own unique ideas.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree

19. Teaching creative problem solving is not one of my strengths.

[1] Strongly disagree [2] Disagree [3] Neither agree nor disagree [4] Agree [5] Strongly agree