

Attachment 1: Questionnaires.

Carolina C. Carvalho, Jackeline R. Silva & Piia Kolho: The Use of ePortfolios in Higher Education: A Case Study

Students' questionnaire

1. What is your experience with a previous portfolio? (Close question)
 - a. I have never used a portfolio before
 - b. I use portfolios in personal, professional, and teaching projects
 - c. I have only used a portfolio in research and projects that I participate in.
2. The final project helped to develop the ability to look at the real world and identify opportunities for applying OR. Furthermore, it helped to develop discipline skills such as mathematical modeling, use of the solver tool, and critical analysis of the scenario (0 to 5, Likert scale)
3. The portfolio helped me make the learning path visible when developing the final project (0 to 5, Likert scale)
4. In your opinion, what is the advantage of using the Portfolio as a learning mediation tool? (Open question)
5. What are the limitations or challenges of working with a portfolio as a student? (Open question)
6. The portfolio helped to develop my communication skills, my objectivity and to make my group's learning visible and evident. (0 to 5, Likert scale)
7. Define in one word your experience using a portfolio (Open question)
8. In your opinion, could the portfolio be a tool to be used in selection processes by companies/institutions to better understand the candidate's experiences, skills and profile? (0 to 5, Likert scale)

Teacher's questionnaire

1. How long have you been using the portfolio in the discipline? (Open question)
2. What are your objectives and expectations when introducing this tool into the discipline? (Open question)
3. When analyzing the portfolio, can you access the student's learning and their evolution in the subject? (0 to 5, Likert scale)
4. Does using the Portfolio as a group construction harm the teacher's analysis of individual learning? (Open question)
5. What is the relationship between the use of a portfolio and the teacher's working time? (Open question)
6. What are the limitations and challenges of working with a portfolio? (Open question)
7. Define in one word your experience using a portfolio (Open question)
8. In your opinion, what is the advantage of using the Portfolio for students and teachers? (Open question)
9. In your opinion, the portfolio as part of a collective production, could it be a tool to be used in selection processes by companies/institutions to better understand the candidate's experiences, skills and profile? (0 to 5, Likert scale)
10. Do you intend to make changes regarding the use of the portfolio in the discipline? If yes, describe it and cite the motivation (Open question)

External agent's questionnaire

1. What is your experience with a previous portfolio? (Close question)
 - a. I have never used a portfolio before
 - b. I use portfolios in personal, professional, and teaching projects
 - c. I have only used a portfolio in research and projects that I participate in
 - d. In Undergraduate discipline
2. The portfolio helped students make the learning path visible when developing the final project (0 to 5, Likert scale)
3. In your opinion, what is the advantage of using the Portfolio? (Open question)
4. From your perspective, what are the limitations or challenges of working with a portfolio? (Open question)
5. When analyzing the portfolio, can the teacher access the student's learning and their evolution in the discipline? (Open question)
6. In your opinion, what is the relationship between the use of a portfolio and the teacher's working time? (Open question)
7. Define in one word your experience with using a portfolio in the discipline (Open question)
8. What potential do you see in using the portfolio? (Open question)
9. In your opinion, the portfolio as part of a collective production, could it be a tool to be used in selection processes by companies/institutions to better understand the candidate's experiences, skills and profile? (0 to 5, Likert scale)
10. What would be the suggestion for the discipline regarding the use of the portfolio? (Open question)