Appendix 1. Questions and scale of values of the questionnaire

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| Question | Text |
| P01 | What master's program are you enrolled in? |
| P02 | Do you consider that the subjects in the program are logically and sequentially organized? |
| P03 | Do you consider that the program contents are relevant to the educational objectives? |
| P04 | Do the contents reflect advancements and changes in the field of study? |
| P05 | Do you know what the program objectives are? |
| P06 | Do you know what skills are expected to be developed upon completing the program of study? |
| P07 | Are different types of assessments (exams, assignments, projects, presentations) used to measure your learning? |
| P08 | Do the assessments reflect real and contextual situations related to the field of study? |
| P09 | Do you consider study materials, labs, libraries, technology, and faculty easily accessible? |
| P10 | Are updated and relevant resources used to support learning? |
| P11 | Do you know the focus of your graduate studies program? |
| P12 | Do you consider the program enabled you to develop skills and knowledge relevant to the targeted professional or job field? |
| P13 | Does the graduate program include projects or practical activities focused on industry applications? |
| P14 | Do you consider that the subjects and contents of your graduate program are aligned with the latest developments in the industry? |
| P15 | How do you rate the knowledge acquired for each of the technological developments? [Artificial Intelligence and Machine Learning] |
| P16 | How do you rate the knowledge acquired for each of the technological developments? [Data Science and Data Analytics] |
| P17 | How do you rate the knowledge acquired for each of the technological developments? [Cybersecurity] |
| P18 | How do you rate the knowledge acquired for each of the technological developments? [Software Development and Programming] |
| P19 | How do you rate the knowledge acquired for each of the technological developments? [Networks and Communications] |
| P20 | How do you rate the knowledge acquired for each of the technological developments? [Robotics and Automation] |
| P21 | How do you rate the knowledge acquired for each of the technological developments? [Internet of Things (IoT)] |
| P22 | How do you rate the knowledge acquired for each of the technological developments? [Cloud Computing] |
| P23 | How relevant do you consider the competencies acquired during your graduate studies for integration into industry and innovation ecosystems? |
| P24 | Do you consider that your graduate studies provided you with relevant and current information? |
| P25 | Do you consider that the subjects and contents of your graduate studies are aligned with the latest industry developments? |
| P26 | Do you feel you have developed skills that would allow you to adapt to future changes? |
| P27 | Do you trust your ability to tackle technological and innovation challenges in industry after completing your graduate studies? |
| P28 | Do you consider that the acquired competencies enable you to effectively collaborate in interdisciplinary and team environments? |

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| **P15-P22** | |
| 1 | Totally insufficient |
| 2 | Insufficient |
| 3 | Neither sufficient nor insufficient |
| 4 | Sufficient |
| 5 | Totally sufficient |

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| **P02, P03, P04, P07, P08, P09, P10, P12, P13, P14, P24, P26** | |
| 1 | Strongly disagree |
| 2 | Disagree |
| 3 | Neither agree nor disagree |
| 4 | Agree |
| 5 | Strongly agree |

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| **Gender** | |
| 1 | Female |
| 2 | Male |
| 3 | Other |

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| **P01** | |
| 1 | Master of Science in Computer Science |
| 2 | Master of Science in Computer Engineering |

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| **P23** | |
| 1 | Totally irrelevant |
| 2 | Irrelevant |
| 3 | Neither relevant nor irrelevant |
| 4 | Relevant |
| 5 | Totally relevant |

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| **P05, P06, P11, P27, P28** | |
| 1 | Yes |
| 2 | No |
| 3 | Maybe |

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| **P25** | |
| 1 | Very misaligned |
| 2 | Misaligned |
| 3 | Neither aligned nor misaligned |
| 4 | Aligned |
| 5 | Very aligned |