Implementação de Programas Mistos Intensivos (BIP) para o desenvolvimento de competências na integração de Inteligência Artificial Generativa por alunos e docentes

2º Congresso Internacional Pedagogia XXI

António Alves Lopes

09/05/2025

Compreender a realidade

ESS ALCOITÃO
ESCOLA SUPERIOR DE SAÚDE

Utilização de Inteligência Artificial por Alunos de Profissões de Saúde

Cara(o) Participante

Os **alunos** (Ana Dias, Filipe Lopes, João Delgado, Margarida Santos) do **4º ano da licenciatura em Fisioterapia** da **Escola Superior de Saúde do Alcoitão**, sob orientação do Professor António Alves Lopes, convidam-no a participar num estudo sobre o uso da Inteligência Artificial (IA) no processo de aprendizagem pelos alunos de profissões de saúde da Escola Superior de Saúde do Alcoitão.

Antes de dar o seu consentimento para participação, é importante que entenda o objetivo do estudo, os procedimentos e os seus direitos como participante.

Propósito:
Os objetivos deste estudo são:

- Perceber o conhecimento dos estudantes relativamente à IA;

ESS ALCOITÃO
ESCOLA SUPERIOR DE SAÚDE

Inteligência Artificial no Ensino e Investigação no contexto das profissões de saúde

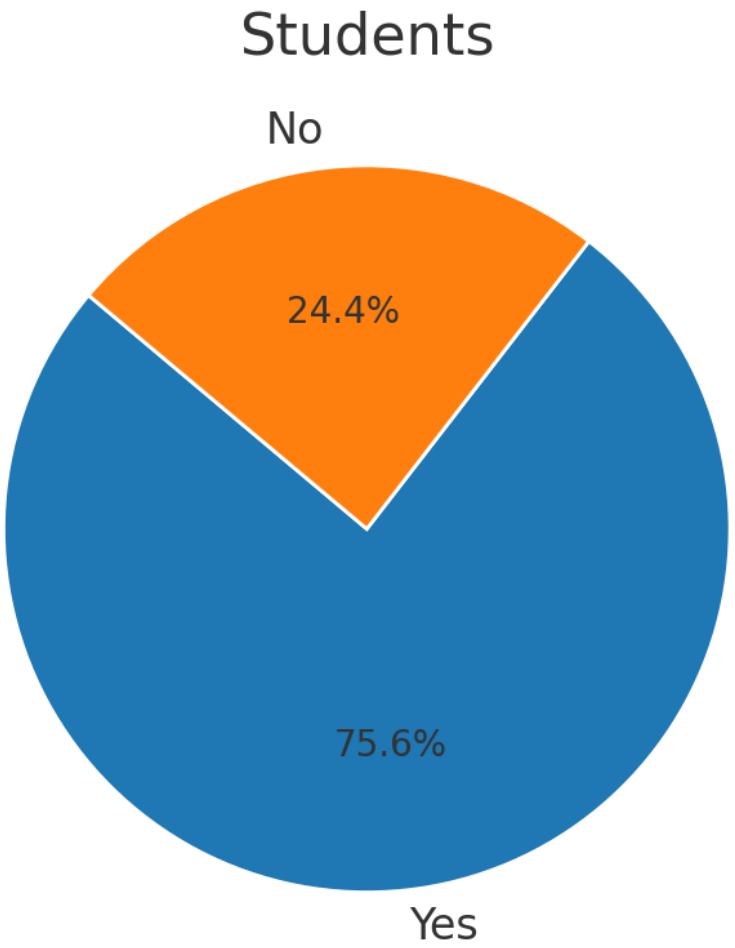
O **Departamento de Fisioterapia da ESSA** convida-o a participar num estudo sobre o uso da Inteligência Artificial (IA) no ensino e investigação nas profissões de saúde.

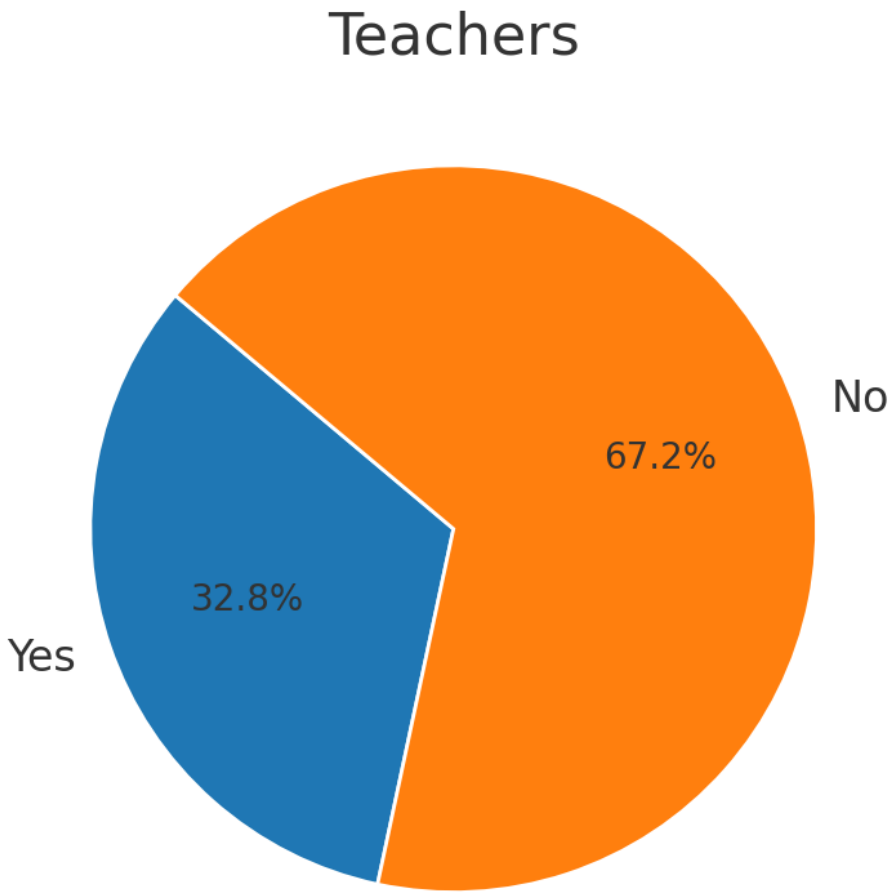
Antes de decidir participar, é importante que entenda o objetivo do estudo, os procedimentos e os seus direitos como participante.

Propósito:
O objetivo deste estudo é:

- Perceber o conhecimento dos educadores e investigadores acerca da IA.
- Os padrões de utilização da IA no ensino e investigação.
- Atitudes em relação à integração da IA no ensino e investigação.

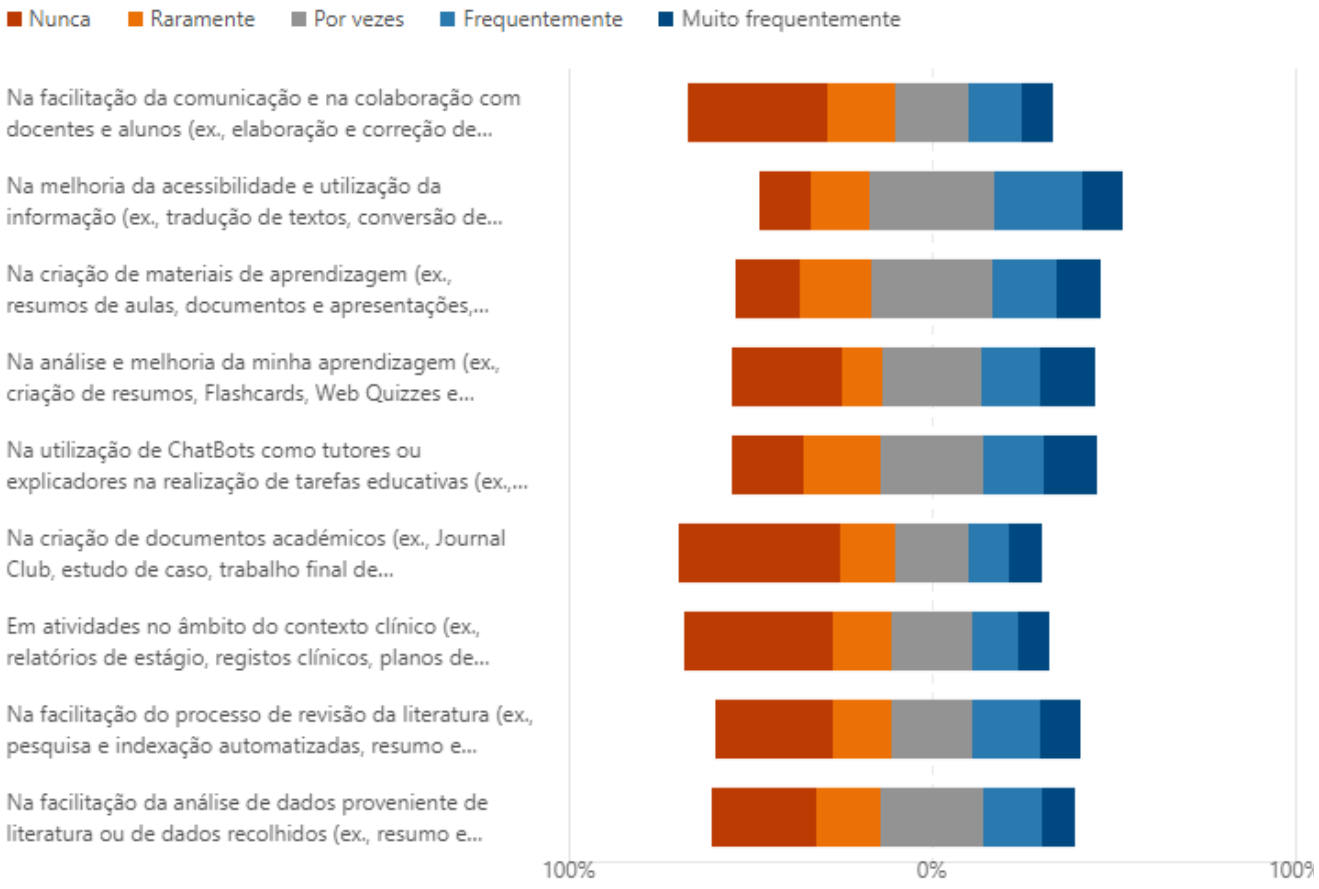
Usa inteligência artificial no contexto educativo?



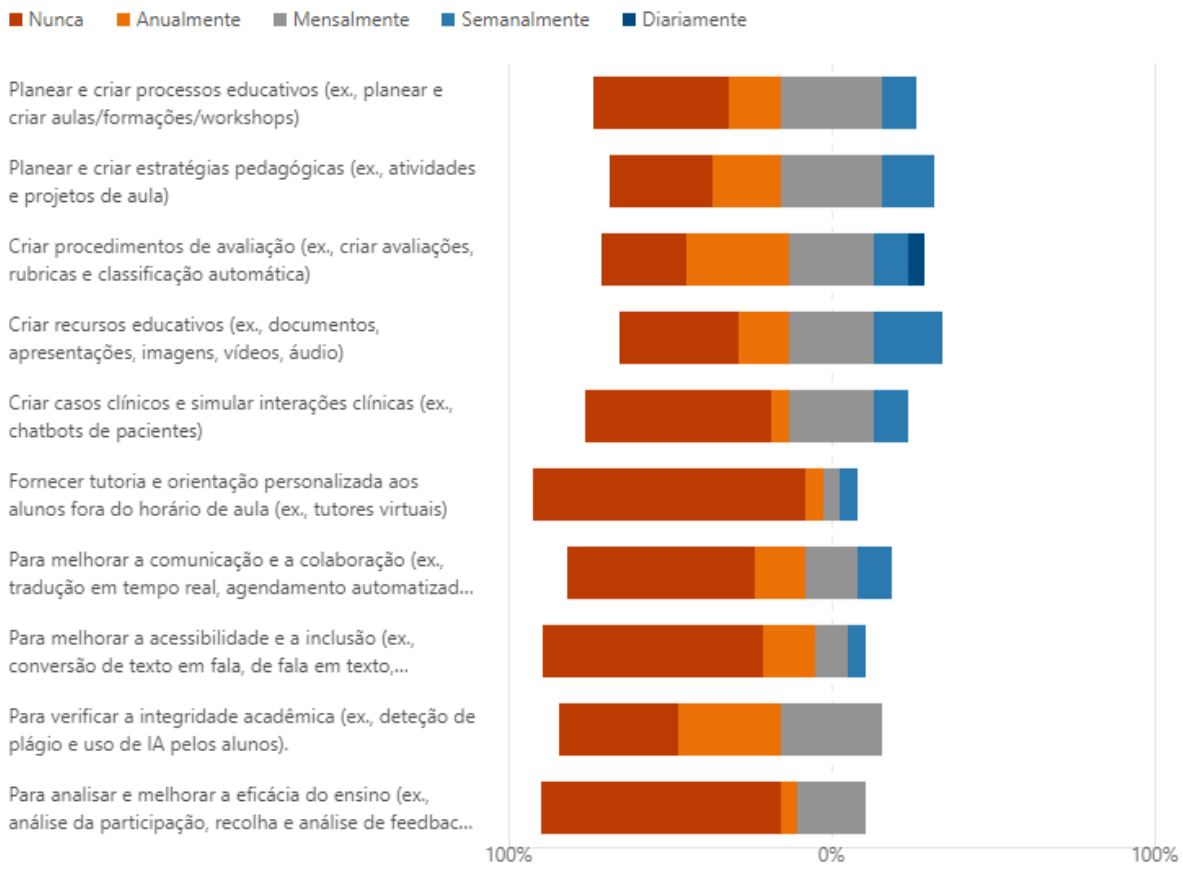


Como utiliza a inteligência artificial no contexto educativo?

Alunos

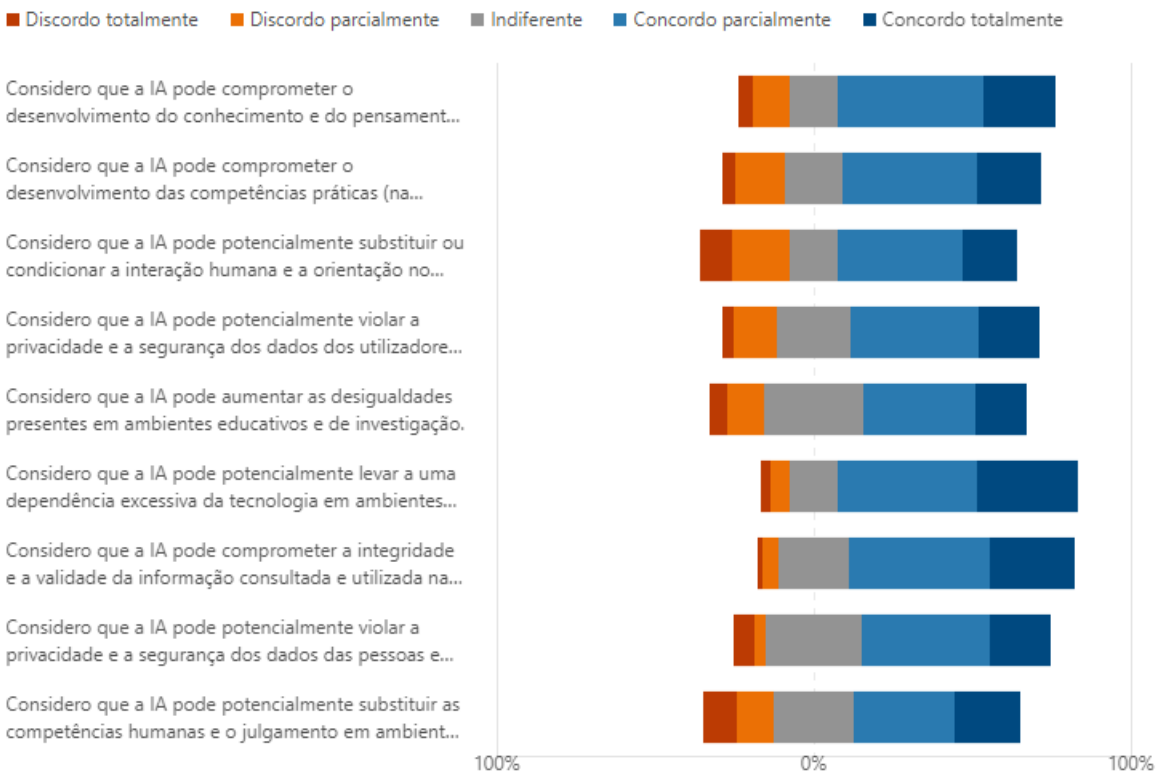


Professores

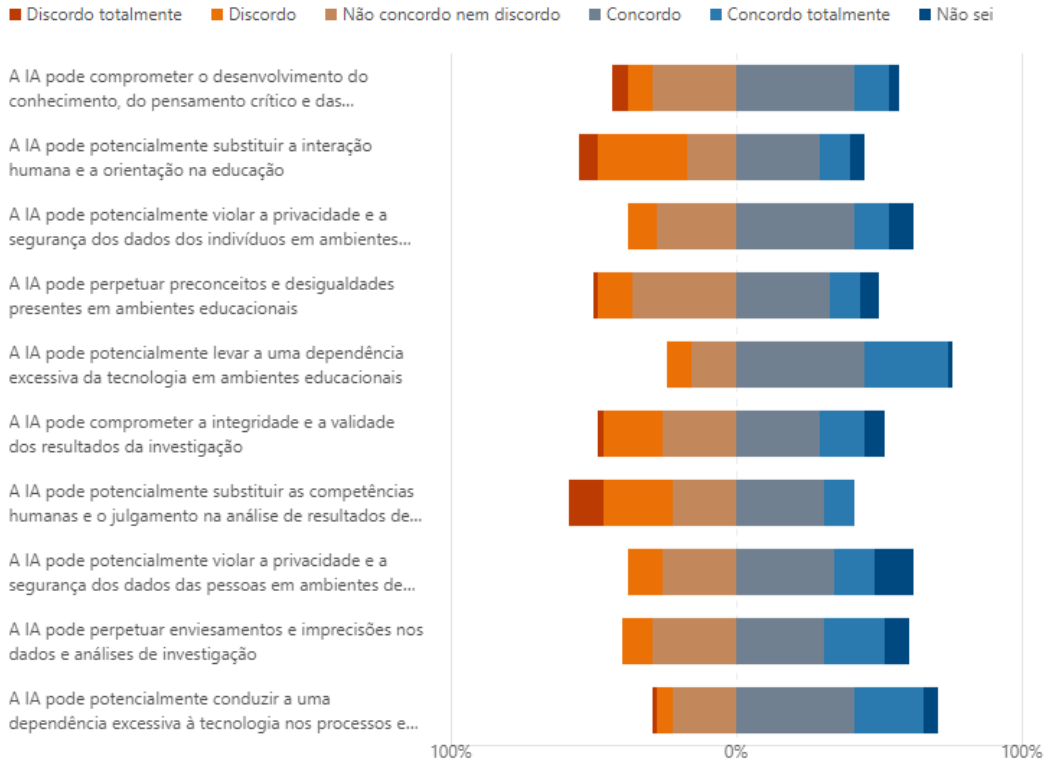


Preocupações e Riscos Percebidos da Utilização da Inteligência Artificial na Educação

Alunos

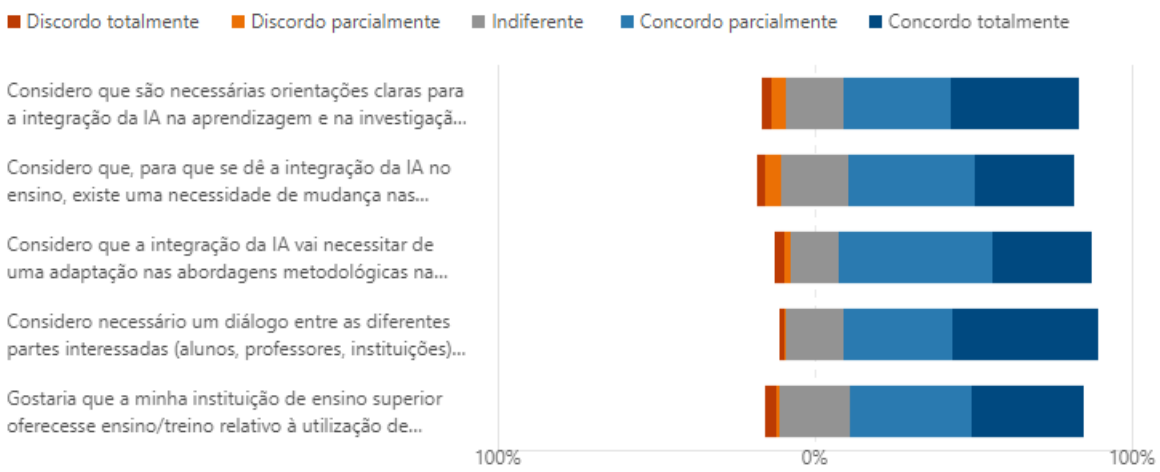


Professores

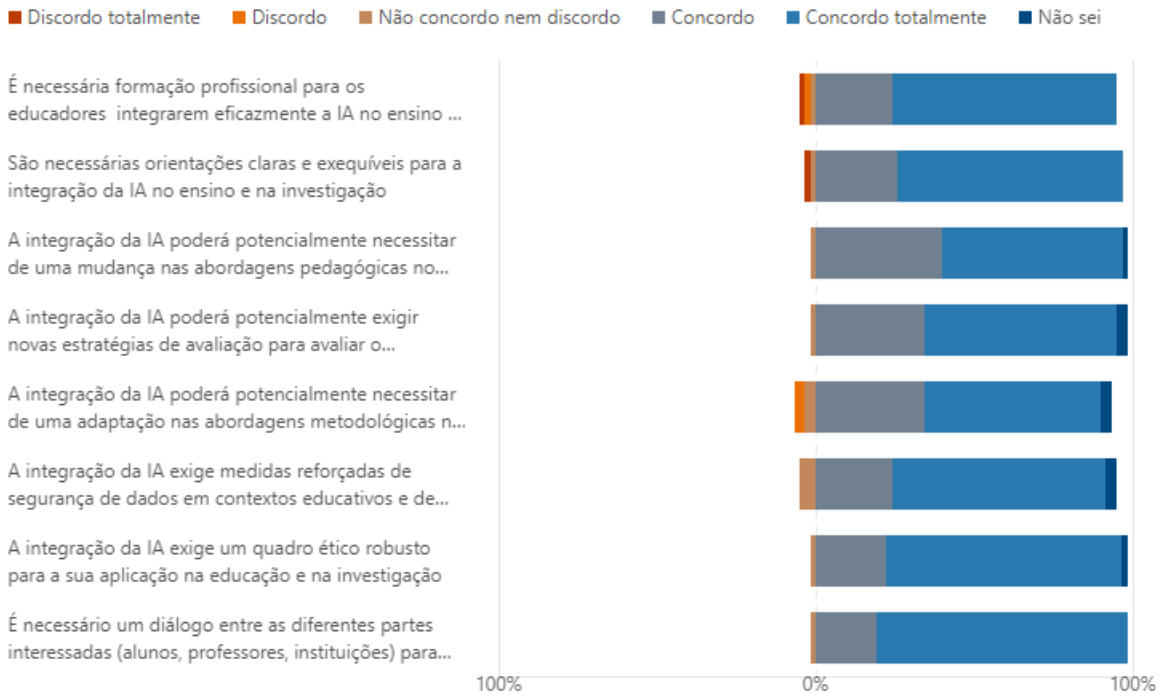


Necessidades Percebidas para a Integração da Inteligência Artificial na Educação

Alunos



Professores



- Verifica-se uma crescente incorporação da inteligência artificial (IA) no contexto educativo, com os estudantes a assumirem um papel mais activo na sua adopção do que os docentes.

- A utilização da IA centra-se, predominantemente, no apoio à aprendizagem, permanecendo limitada a sua integração nos processos de ensino e avaliação.

- **Ambos os grupos reconhecem o potencial da IA, embora persistam preocupações significativas quanto à privacidade, segurança da informação, integridade académica e implicações éticas.**

- Os estudantes manifestam apreensão relativamente ao impacto da IA na qualidade da aprendizagem e ao risco de dependência tecnológica.

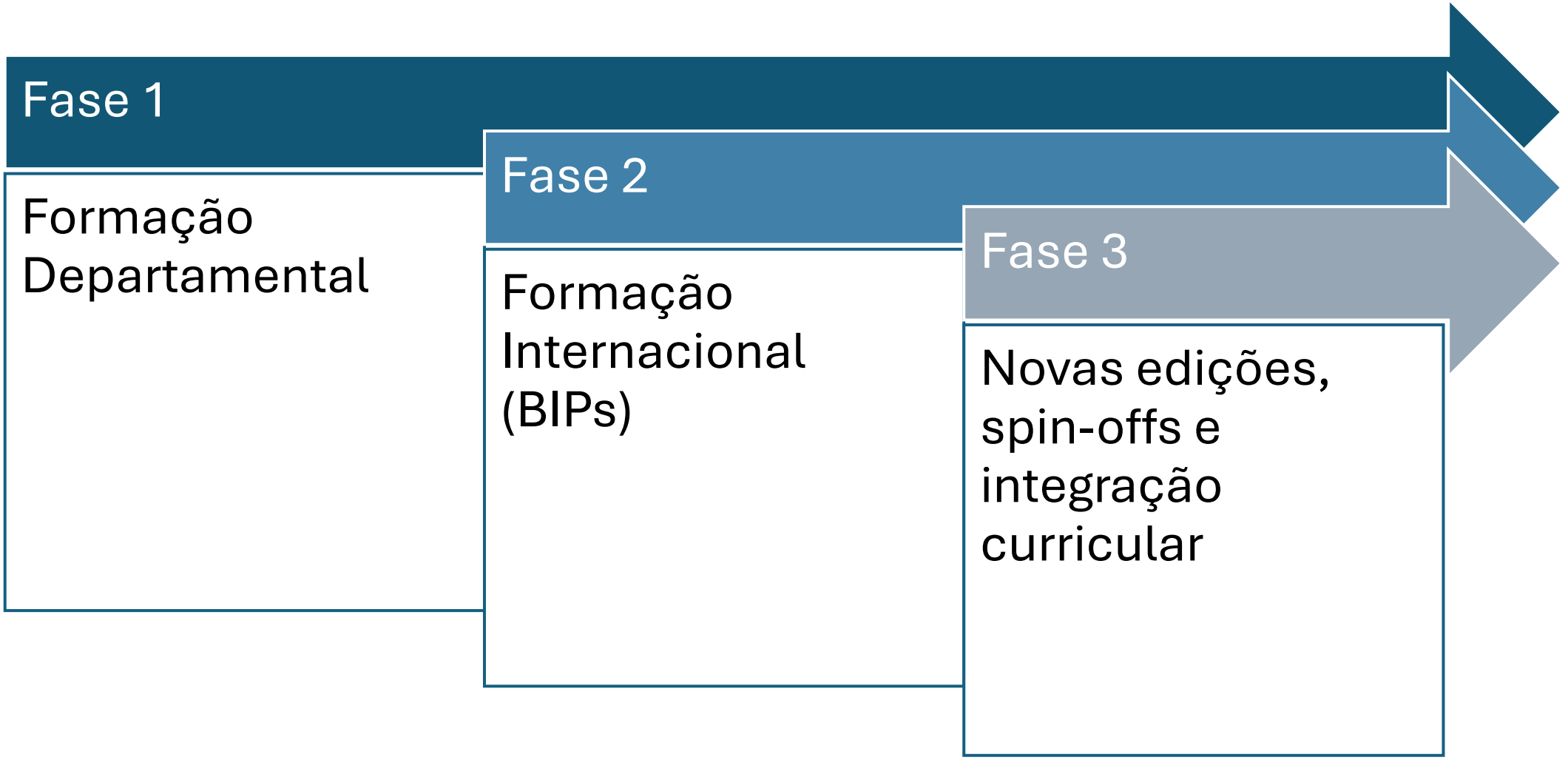
- Os docentes evidenciam preocupações quanto à fiabilidade das avaliações e à necessidade de resposta às questões éticas emergentes.

- **Emerge uma necessidade clara de desenvolvimento de orientações institucionais sólidas, programas de formação adequados e espaços de diálogo interdisciplinar.**

- Enquanto os estudantes valorizam a criação de programas estruturados sobre IA, os docentes sublinham a importância do desenvolvimento profissional contínuo que lhes permita adaptar as suas práticas pedagógicas.

Influenciar a realidade

Estratégia para a promoção de competências



BLENDED INTENSIVE PROGRAMME

Programas Mistos Intensivos (BIP)

São uma modalidade do programa Erasmus+ que combinam uma mobilidade física de curta duração com uma componente virtual obrigatória, promovendo novas formas de ensino e aprendizagem colaborativa entre instituições de ensino superior de diferentes países.

Estrutura dos BIPs:

- **Componente física:** Mobilidade presencial de **curta duração, entre 5 e 30 dias**, realizada numa instituição parceira no estrangeiro. Esta fase permite a interação direta, a realização de atividades práticas e o desenvolvimento de competências interculturais.
- **Componente virtual:** Atividades online (anteriores, posteriores ou concomitantes à mobilidade física), sem limite de duração, centradas no trabalho colaborativo, na aprendizagem a distância e no desenvolvimento de projectos em equipa.
- **Participação internacional:** Cada BIP é organizado, no mínimo, por **três instituições de ensino superior** de três países diferentes participantes no programa Erasmus+.
- **Público-alvo:** Estudantes e/ou pessoal (docente e não docente) de qualquer área científica e ciclo de estudos, incluindo pessoas que não possam realizar mobilidades de longa duração.
- **Créditos e reconhecimento:** Os estudantes recebem, habitualmente, um mínimo de **3 ECTS** pelo programa, que podem ser integrados no plano de estudos ou no suplemento ao diploma

https://wikis.ec.europa.eu/spaces/NAITDOC/pages/73564747/Blended+Intensive+Programmes+in+KA131+Higher+Education+projects

Blended Intensive Program
Artificial Intelligence in Education and Research

Joint organization of:

- Escola Superior de Saúde do Alcoitão,
- Universidad Pontificia Comillas,
- Avans University of Applied Sciences - Avans Hogeschool,
- Satakunta University of Applied Sciences,
- Umanresa (UVic-UCC), University of Lincoln

Funded by the Erasmus+ Programme of the European Union

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Erasmus+ Programme
of the European Union

Aim:

- Enhance participants' comprehension of Artificial intelligence (AI) capabilities and relevance in the context of education and research of healthcare professions.

- This program aims to provide a comprehensive overview of AI technologies, their potential applications in educational settings and research methodologies, and to discuss innovative strategies for optimising learning experiences and research outcomes.

Funded by the
Erasmus+ Programme
of the European Union

Description:

- This course is organised to guide the participants in understanding the latest advancements in AI for education and research.
- Attendees will be exposed to diverse AI tools and strategies. Participants will also gain insights on how to utilise best practices when incorporating AI tools in educational and research environments.
- They will also discuss and reflect on the ethical challenges associated with implementing AI, including issues related to data privacy, biases, and ethical research practices.

Funded by the
Erasmus+ Programme
of the European Union

Structure:

We propose a 3-step implementation of the program.

1. The first step introduces participants to the concept and context of Artificial Intelligence in Education and Research, laying a foundational understanding.
2. In the second step, participants will have an opportunity to familiarize themselves with various AI tools relevant to both domains. The focus will be on understanding the tools' functionalities and potential applications.
3. The final step aims to guide participants in applying what they've learned, emphasizing the transfer of knowledge to real-world contexts in both Education and Research. At the end, the participants will also discuss the ethical and legal aspects of using AI.

Blended Intensive Program
Artificial Intelligence in Education and Research

Funded by the Erasmus+ Programme of the European Union

Topics:

Online

- Concept and Context of AI
- AI in Education and , opportunities and Challenges

Face-to-face

- AI for Personal Organization and Communication
- AI for Support in Teaching and Learning
- AI for support in Research
- AI for support in Academic and Research integrity
- AI readiness and integration steps in Education and Research

Blended Intensive Program
Artificial Intelligence in Education and Research

Funded by the Erasmus+ Programme of the European Union

Face-to face week (From 13 till 17 of May)

Workshop I - Generative AI fundamentals and Prompting	Workshop III - Generative AI for Support in Teaching and Learning I	Workshop V - Generative AI for Support in Teaching and Learning III	Workshop VII - Generative AI for support in Research I	Workshop IX - Generative AI for support Academic and Research integrity
Workshop II - AI for Personal Organization and Communication	Workshop IV - Generative AI for Support in Teaching and Learning II	Workshop VI - Generative AI for Support in Teaching and Learning IV	Workshop VIII - Generative AI for support in Research II	Workshop X - AI readiness and integration steps in Education and Research
Sandbox I	Sandbox II	Social/Cultural Program	Sandbox III	Sandbox IV and Next steps and closure

Developing a Specialised Learning Module for Neurodegenerative Diseases

Blended Intensive Program
Artificial Intelligence for Students

Joint organization of:

Escola Superior de Saúde do Alcoitão, Universidad Pontificia Comillas, Avans University of Applied Sciences, Satakunta University of Applied Sciences, Palacký University Olomouc, Universidad CEU San Pablo, Hochschule für Gesundheit, HAN University of Applied Sciences, University of Lincoln

Funded by the Erasmus+ Programme of the European Union

Program aim:

- Enhance participants' comprehension of Artificial intelligence (AI) capabilities and relevance in the context of education, research and clinical practice of healthcare professions.

- Provide a comprehensive overview of AI technologies, their potential applications in educational and clinical settings, and to discuss strategies for optimising learning experiences, research outcomes and clinical interactions

Program description:

- This course is designed to guide participants in understanding the latest advancements in AI for education and research.

- Participants will be introduced to a variety of AI tools and strategies and will gain insights into how to incorporate them effectively in different settings.

- Additionally, we will discuss and reflect on the ethical challenges associated with implementing AI, including concerns related to data privacy, biases, and ethical research practices.

Program structure:

3-step implementation of the program.

1. The first step introduces participants to the concept and context of Artificial Intelligence in education, research, and clinical practice, providing a foundational understanding.
2. In the second step, participants will explore various AI tools relevant to these domains, focusing on understanding their functionalities and potential applications. This phase will also address the ethical and legal aspects of using AI.
3. The final step is designed to guide participants in applying their knowledge, with an emphasis on transferring insights to address real-world challenges.

Online - Jan 27 and Feb 3 - 2025

Concept and Context of AI, history and trends

11:00 - 13:00 h (CET)

AI in Learning, Research and Clinical practice, opportunities and Challenges

11:00 - 13:00 h (CET)

Face-to face week - from 17 till 21 of February

Topic 1	Topic 2	Topic 3	Topic 4	Topic 5
AI as a Personal Coach	AI as a Learning Buddy	AI as a Creative Partner	AI as a Research Assistant	AI as a Clinical Companion
		Social/Cultural Program		

Activities - 2025

Group Work

Face-to face week - from 17 till 21 of February

Individual Reflection Report

Submission until February 28th

Conversa
Pessoas
31
Levantar mão
Reagir
Vista
Salas
Apps
Mais
Câmara
Microfone
Partilhar
Sair
Miriam Tetzlaff (Não verificado)
Klein Tomas (Não verificado)
Angela Arntz (HS Gesundheit, Ger...
Mankinen Mikko (Não verificado)
Martin Dvořáček (Não verificado)
LO
Walsh Robert (Não verificado)
Lucas Bromley (Não verificado)
Binderova Viktorie (Não verificado)
Riina Urpilainen (Não verificado)
Kriz Jan (Não verificado)
Marcela José Marcial Valbuena (N...
Ángel Martínez López (Não verific...
Matusova Edita (Não verificado)
Zajonckova Katerina (Não verifica...
Alfonso Puumalainen Axel (Não v...
Marco González Bouzón (Não veri...
Amelie Wirz (Não verificado)
Ana Sampedro De Blas (Não verifi...
Charlig Renaudin (Não verificado)
ME
Mohamed Eldebiky (Não verificad...
Virva Sundell (Não verificado)
Franziska Matzel und Lea Hottel (...

Evaluation of the Blended Intensive Program - Artificial Intelligence for Students - 2025

Dear Participant,

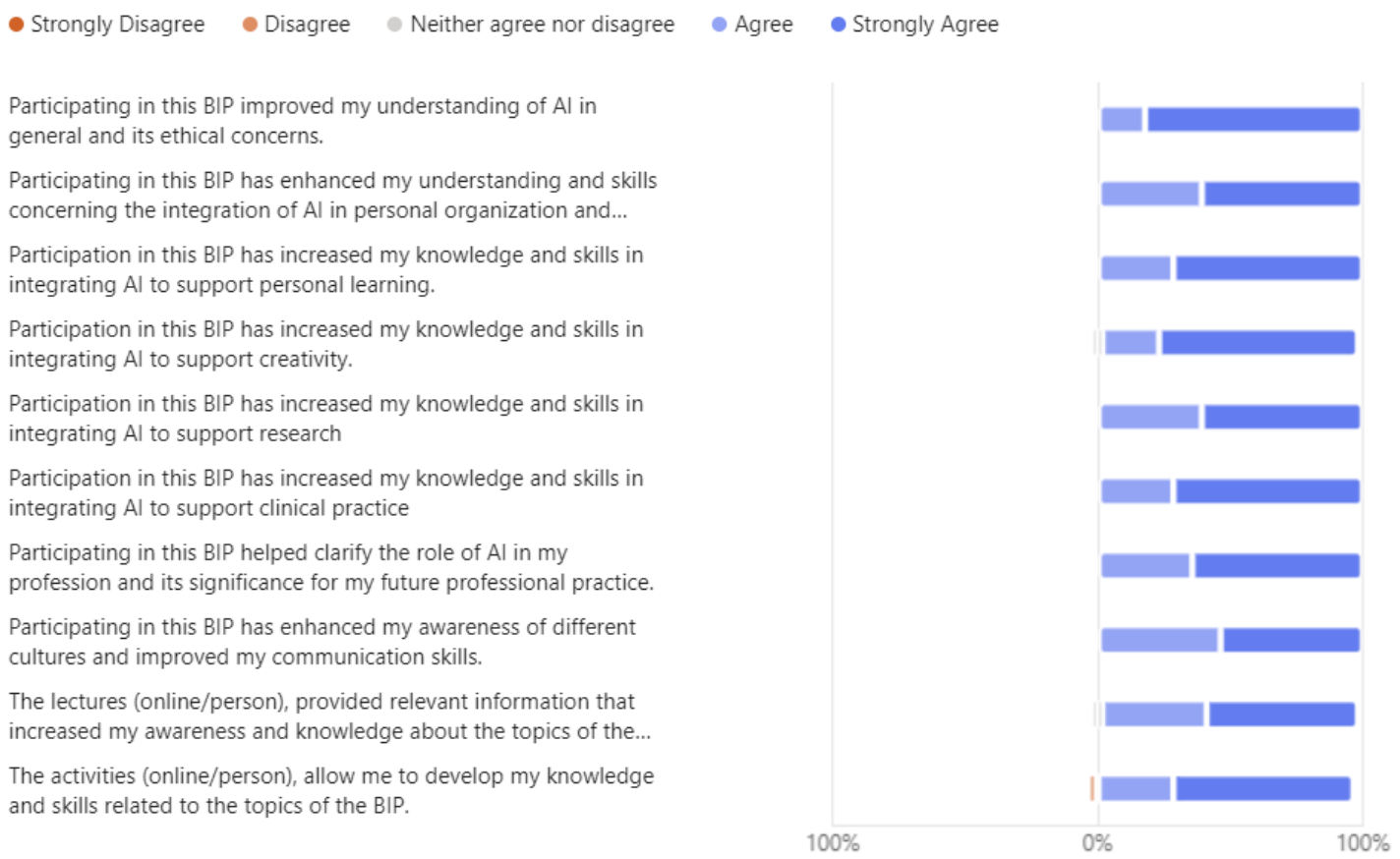
The organizers are committed to continuously improving the learning experience and ensuring that the Blended Intensive Program (BIP) meets the participants' needs and expectations. To achieve this goal, we value your honest feedback about your experience in the BIP.

This questionnaire aims to gather information about your satisfaction with various aspects of the Blended Intensive Program. Your feedback will be critical in helping us identify areas for improvement and enhance the program's overall quality for future participants.

Please note that your participation in this survey is voluntary, and all responses will be kept confidential.

Results

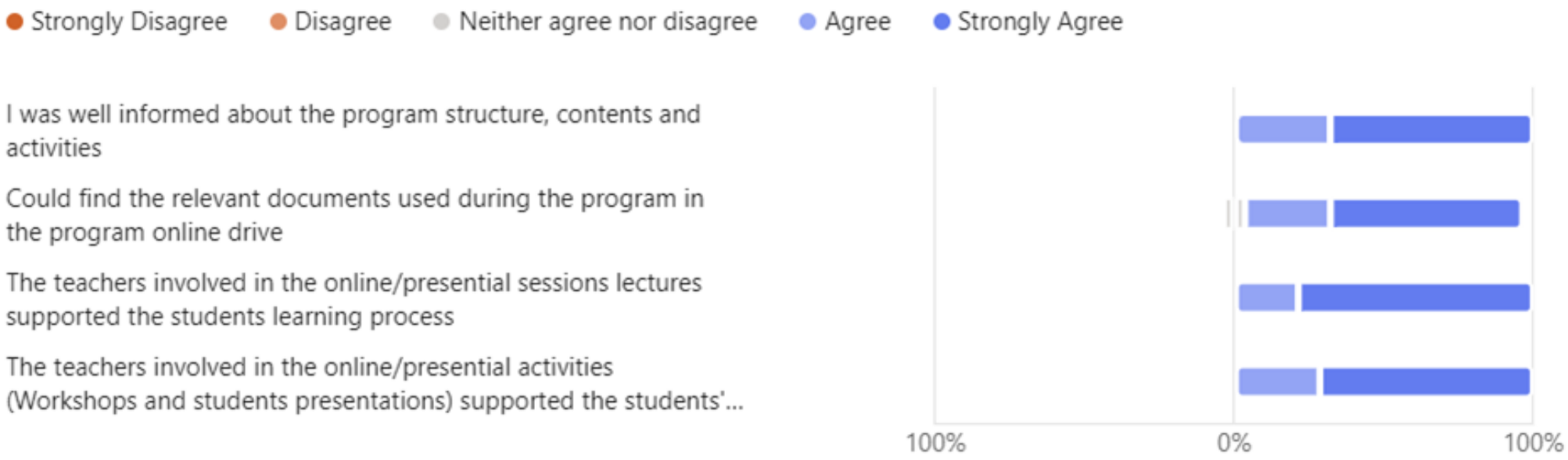
Student feedback about the Blended Intensive Program's content and activities



When asked about the about the **Blended Intensive Program's content and activities,** overall, participants expressed a positive view of the BIP content and activities, with consistently positive self-assessments across all reported learning outcomes, with relatively little variation among the items

Results

Student feedback about the Blended Intensive Program’s support and collaboration

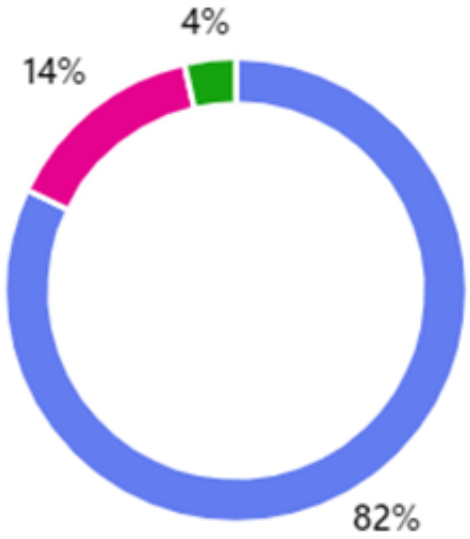


Regarding the student **feedback about the Blended Intensive Program’s support and collaboration**, responses show consistently positive perceptions of the program's preparation and support. All four statements received a very high level of agreement. No respondents selected “Disagree” or “Strongly Disagree” for any aspect, indicating that students found the preparation and facilitation broadly satisfactory. There is only minor room for improvement regarding the accessibility of program materials.

Results

Student feedback about the quality of this Blended Intensive Program in general

Very good	23
Good	4
Fair	0
Poor	0
Very poor	1

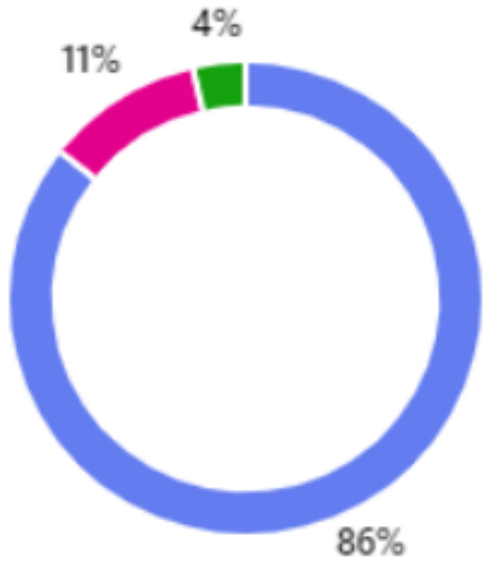


Most students provided positive **feedback regarding the quality of the Blended Intensive Programme**. Specifically, 82% of respondents rated it as "Very Good," and an additional 14% selected "Good." Only one participant (4%) rated the program as "Very Poor," while no individuals chose the "Fair" or "Poor" categories. These results indicate generally favourable perceptions of the program, with only one outlier expressing significant dissatisfaction.

Results

Student recommendation of the Blended Intensive Program

Strongly Agree	24
Agree	3
Neither agree nor disagree	0
Disagree	0
Strongly disagree	1



Finally, most respondents showed a strong willingness to **recommend the Blended Intensive Programme**. Specifically, 86% selected “Strongly Agree,” while an additional 11% chose “Agree.” Only one student (4%) indicated “Strongly Disagree,” and no neutral or intermediate negative responses were recorded.This indicates a generally positive view of the programme, with nearly unanimous recommendations, aside from a single opposing opinion.

O que falta fazer...