

## **INTELLIGENCE NEW USE**

### **Members:**

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- **Fabiola Ximena Espinoza Inoñan**
- **Antoinette Camila de la Torre Cabrera**
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### **Mentor:**

- **Luis Alberto Raymundo Chacaltana**

### **PROBLEM**

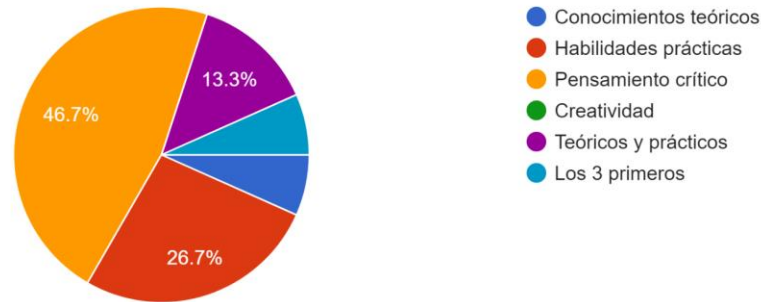
One of the current problems in education is traditional assessment methods that have an unfavorable impact on teachers and students. Consequently, in a context immersed in technologies such as Artificial Intelligence (AI), it is inevitable that it will be used to systematize processes, such is the case of the evaluation process. The use of AI is even part of the Education 2030 Agenda, one of the Sustainable Development Goals (SDGs). Today, teachers and students face the challenges of integrating this technology because there is no suitable platform that provides them with the multiple benefits of AI in assessment methods. For this reason, in order to solve this problem, we conducted a survey of 15 professors from the Peruvian University of Applied Sciences to find out about their greatest teaching challenges in an environment changing due to new technologies. After knowing the perspective of the teachers on this matter, it was necessary to identify what were the challenges that the students went through when being evaluated. For this reason, we discussed our experiences in the evaluations through various meetings. Knowing these two perspectives, we developed a platform called Intelligence New Use (INU).

### **EVIDENCE**

To come up with this project, we used a survey as a data collection method. For this reason, we developed 10 questions, 2 of which were open-ended. We managed to get a response from 15 professors from our university, the Peruvian University of Applied Sciences (UPC). Below is the data obtained from the survey:

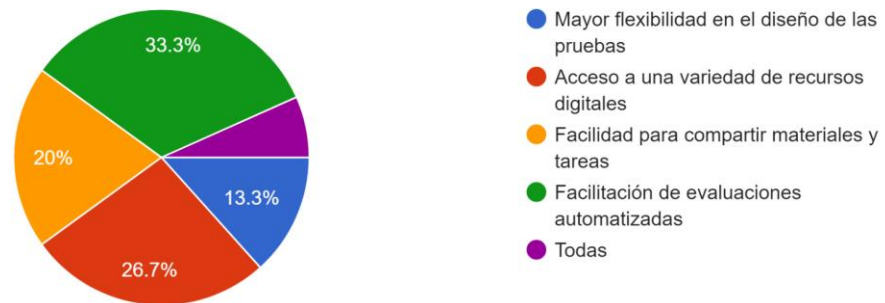
### ¿En qué competencias te basas al diseñar las evaluaciones ?

15 respuestas



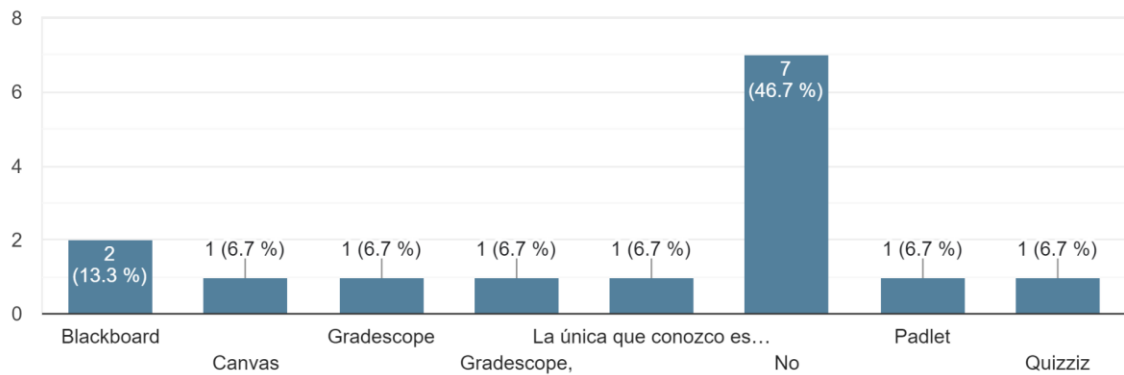
### ¿Cómo crees que te ayudaría un entorno virtual para tus evaluaciones ?

15 respuestas



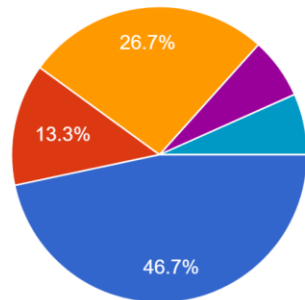
### ¿Conoces una plataforma o método que te ayude a sistematizar las evaluaciones ?

15 respuestas



¿Cómo manejas el tiempo necesario para calificar y proporcionar retroalimentación a los estudiantes ?

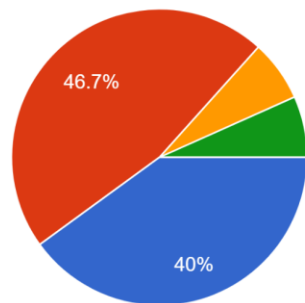
15 respuestas



- Estableciendo horarios específicos para la calificación
- Utilizando herramientas de calificación automática
- Priorizando tareas de retroalimentación según su urgencia
- Asignando tareas de retroalimentación
- He reducido el contenido y cada vez más estoy reduciendo, poniendo foco...
- Las dos primeras

¿En qué medida las restricciones de tiempo o los plazos ajustados te han afectado al realizar evaluaciones ?

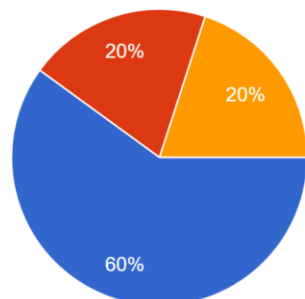
15 respuestas



- Gran impacto, dificultando la calidad de la evaluación
- Algo de impacto, pero aún se logra la calidad requerida
- No ha tenido impacto significativo
- Ha mejorado la eficiencia en el proceso de evaluación
- No estoy seguro

¿Has experimentado desafíos al adaptar tus métodos de evaluación en la enseñanza en línea ?

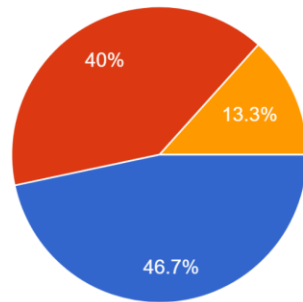
15 respuestas



- Sí, la dificultad para vigilar el proceso de evaluación
- Sí, la dificultad para crear evaluaciones interactivas
- No, me he adaptado sin mayores problemas
- Sí, problemas técnicos durante las evaluaciones en línea

¿Qué es lo que te motivó y te sigue motivando a dictar clases, aunque estas se realicen en un entorno retador como la virtualidad ?

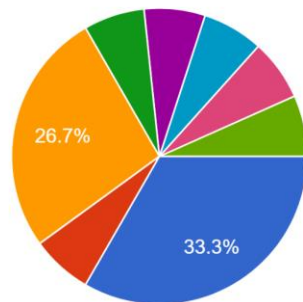
15 respuestas



- Pasión por la enseñanza y la interacción con los estudiantes
- Deseo de fomentar el aprendizaje y el crecimiento personal
- Compromiso con el desarrollo de la comunidad educativa
- La satisfacción de ver el progreso de los estudiantes

¿Cuál es el mayor trabajo que realiza al hacer una calificación de un curso ?

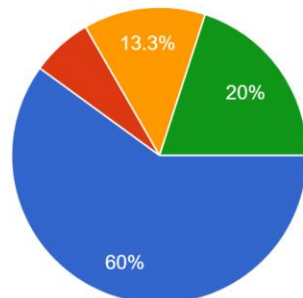
15 respuestas



- Revisión exhaustiva de todas las respuestas
- Identificación de patrones de errores comunes
- Proporcionar comentarios detallados...
- Asignar ponderaciones adecuadas a l...
- En algunos casos revisión exhaustiva...
- Revisión exhaustiva de respuestas qu...
- En nuestro curso prácticamente no te...
- Entender la letra y el orden

¿Qué maneras considera eficientes al momento de calificar una prueba ?

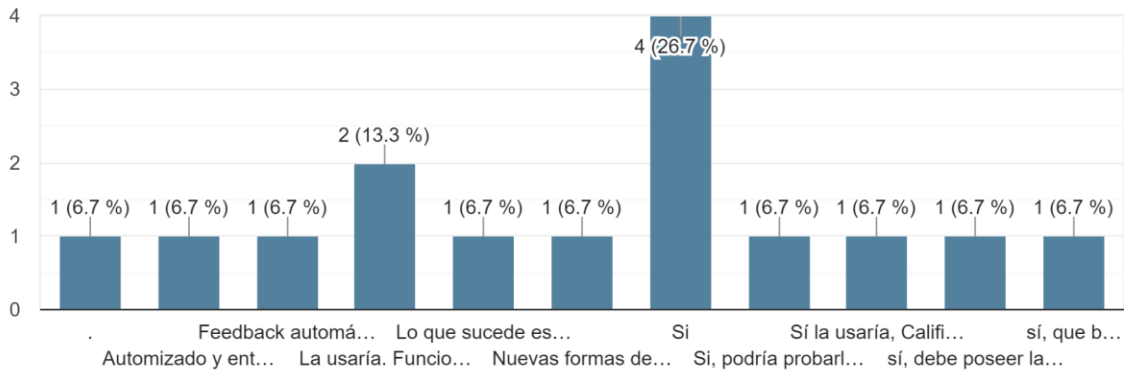
15 respuestas



- Uso de rúbricas claras y bien definidas
- Evaluación por pares o en equipos
- Empleo de herramientas de evaluación automatizadas
- Análisis comparativo de resultados de diferentes pruebas

Si hubiera una herramienta tecnológica que agilice los procesos de evaluación, ¿La usarías ? ¿Qué funciones o características consideras que debería tener, para aprovecharlo al máximo ?

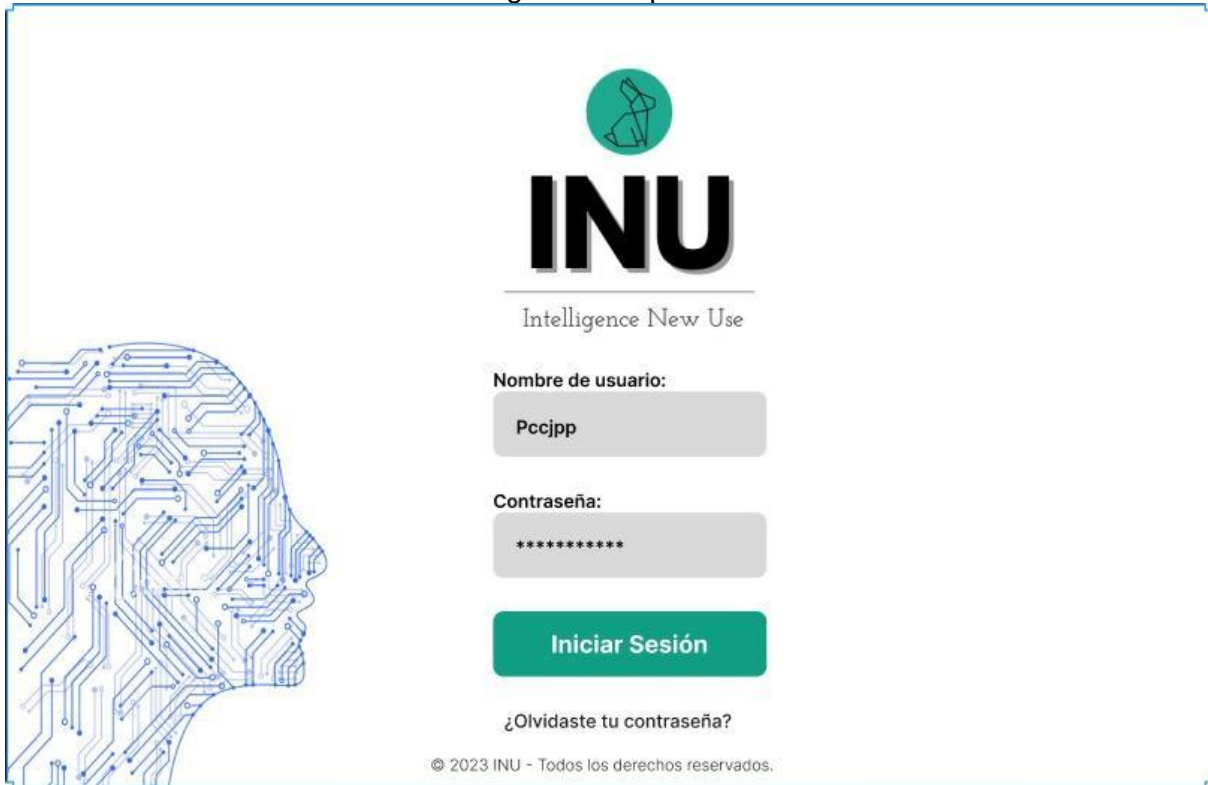
15 respuestas



We are the "Smile Squad" team (team 17) and we present this innovative platform that will change the traditional method of evaluation. We split the benefits for both teachers and students.

**FOR TEACHERS:**

Here's the model of how the teacher logs into the platform:



In this part, the tools and functions included in the platform for the benefit of the student are evidenced.

**Juan Manuel Palacios Palacios**  
Profesor

Información básica

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The teacher's main tool on the INU platform is the "Hope" Chatbot, which fulfills the function of being the assistant. The functions of this tool are as follows:

**FUNCIONALIDADES DE HOPE**

**TU ASISTENTE VIRTUAL!**

- Creación de prácticas y evaluaciones automáticas**  
 Crea evaluaciones a partir de la información proporcionada por el docente. Esto incluye pruebas de banco de preguntas con opciones múltiples y de respuesta con análisis crítico.
- Texto mágico**  
 Esta herramienta permite que el profesor por medio de la redacción de un texto corto obtenga una plantilla de retroalimentación para el resultado de la evaluación del estudiante.
- Análisis detallado del alumno**  
 Brinda un análisis detallado sobre el proceso del estudiante, esta información es la rúbrica que utiliza el docente para evaluar al estudiante.

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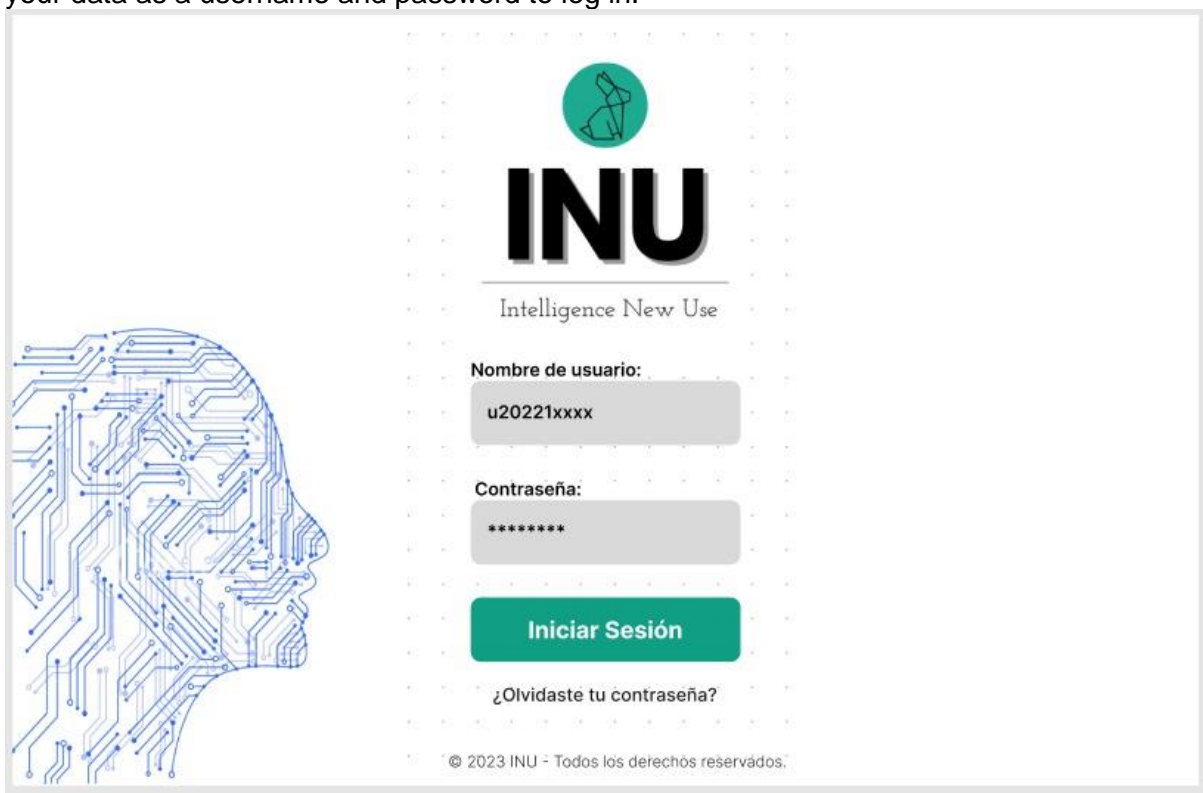
Hola, soy Hope!

- ❖ Create assessments based on the information provided by the teacher. This includes multiple-choice question bank and critical analysis answer tests. In addition, it also allows for the development of a curriculum.

- ❖ It has the "Magic Text" tool, which allows the teacher to write a short text and obtain a feedback template for the result of the student's evaluation. This template can be suitable by the teacher for each student (personalized feedback), which allows for better time management.
- ❖ It provides a detailed analysis of the student's process, this information is the rubric that the teacher uses to evaluate the student. For this analysis, the results of the evaluations, the participation of the students in researching the questions of the "short" and the student's attendance at classes are considered. The analysis is presented by means of a report and/or an essay.

### **FOR STUDENTS:**

The following images show what the platform's interface looks like for the student. They enter your data as a username and password to log in.



Here are the tools and functions that the platform integrates for the benefit of the student.

Renzo Navarro

Cortos

Cursos

Cronograma

Rendimiento

Cerrar Sesión

**Renzo Jesus Navarro Flores**  
Alumno

Información básica

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Each of them is detailed below:


- The teacher provides the necessary information to the IA so that it produces a short explanatory video of the topic or "short", in the final part of the video a maximum of 2 open questions are shown, for which the student must carry out an investigation. The aim of these two tools is for the student to learn autonomously and avoid procrastinating. On the other hand, when the student attends classes, they will have the opportunity to explain the information obtained in their research that answers the questions of the "short film". With this dynamic, an environment of interaction is created between the teacher and the students. Student participation is taken into account in the assessment rubric.




Renzo Navarro Cortos Cursos Cronograma Rendimiento Cerrar Sesión

## Semana 6


Algoritmo de quicksort



¿Cuándo poner tilde?



Integrales paso a paso



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- You are given a syllabus that will serve as a review for your assessments.
- In the case of the partial evaluation, after it has been carried out and with the results (grades), the students will be integrated into 3 groups: high, medium and low performance groups. The purpose of this assignment is to produce a second studies based on the results. The middle- and low-performing groups will be provided with a more rigorous curriculum; while the high performers will be reinforced to maintain their good results through summaries.

Renzo Navarro Cortos Cursos Cronograma Rendimiento Cerrar Sesión

## Semana 6

Actividades realizadas

Visualización Corto 1 - Cálculo I	✓
Visualización Corto 1 - Algoritmos y Estructura de Datos	✓
Actividad de investigación - Matemática Computacional	✓
Trabajo colaborativo - Comprensión y Producción del Lenguaje I	18
Actividad de investigación - Cálculo I	✓

Rendimiento: Alto

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- Also, another function of the AI is to implement a study schedule, with respect to the curricula generated by the AI, that fits the student's schedule.



### **REWARD SYSTEM:**

The student's effort will be rewarded with the partial exoneration of a work that the teacher will determine. The reward will only be offered to those students who have demonstrated their persistence in the continuous evaluations and that this has been reflected in the grades with high average that they have obtained. Persistence is measured by research work, graded practice grades, and evaluations such as midterms.

### **EXAMPLES:**

- Law Career:  
Professor Ramirez uploads a document on the ownership and management bodies of a corporation (S.A.) and asks the IA to develop a "short" and 1 question on why regularity in the procedure of incorporation of the organs of a company is important. José, a student, watches the "short film" and investigates the relevance of the process of constituting the organs, but does not delve into the subject. In class, Professor Ramirez and his students share their knowledge gained from their research.

After a few weeks, Professor Ramirez indicates that the midterm exam will be in 2 weeks, so he asks the IA for a syllabus to give to the students in the class.

At the end of the midterm exam, José obtained unsatisfactory results (medium performance group) and the IA provided him with a curriculum, this time focused on

the type of responsibility assumed by the organs of an S.A. This curriculum fits your schedule and is spread over 5 days a week. Likewise, Professor Ramirez, after the exam, provides his students with feedback generated with the help of the "magic text", a function of the chatbot.

After 8 weeks to finish the cycle, the teacher asks the IA to provide him with information about José in order to assign him his official grade corresponding to the course, taking into account his attendance at classes, the result of his quizzes, the grades of his partial and final exam.

- Software Engineering Career:

Professor Lopez uploads an infographic on how to make animations using Sprints and asks the AI to generate a "short" and two open-ended questions.

Fernanda, a student, watches the "short film" and conducts a detailed investigation on the 2 questions. When Fernanda attends classes, she asks the professor about the difficult topics she faced during her research on the topic of models created through Sprints.

After a few weeks, Professor López points out that the midterm exam will be in 3 weeks, so he asks the IA for a curriculum to provide the students in the class that contains topics such as advanced algorithm and hash table.

At the end of the midterm exam, Fernanda achieves very satisfactory results (high-performance group), so the IA provides her with a second summary of the topics examined in the test. Likewise, Professor Lopez, after the exam, provides his students with feedback elaborated with the "magic text" tool, which is found in the chatbot.

Sometime later, at the end of the cycle, the teacher asks the IA to provide him with information about Fernanda in order to assign her official grade corresponding to the course, for this he requests data such as her attendance at classes, the result of her quizzes, the grades of her midterm and final exam.

## PROTOTYPE OF THE FINAL PRODUCT

### **Teacher Platform Mockup:**

<https://www.figma.com/proto/q9wfOLj5ybjuJsZOYrSvPQ/INU-28H?type=design&node-id=1-28&t=BVV4vBv4Ds7YoSEL-0&scaling=scale-down&page-id=0%3A1&starting-point-node-id=1%3A4>

### **Student Platform Mockup:**

<https://www.figma.com/proto/SaS6l3j9QYzBw6BKbzb0a/mockup-RAVI?type=design&node-id=1075-2&t=sITASWy9qGSRfqM-0&scaling=scale-down&page-id=0%3A1>

## VIDEO LINK

<https://youtu.be/jqVweVgNwSo>

[https://drive.google.com/drive/folders/1kfScSVgpw7jKQmobS4IE4TNQN\\_i4iZRA?usp=sharing](https://drive.google.com/drive/folders/1kfScSVgpw7jKQmobS4IE4TNQN_i4iZRA?usp=sharing)

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