

Technology-Based Approach Integration in Teaching Senior High School Subjects

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Abstract:

Objectives:

1. Determine the perception of Senior High School teachers in the use of technology-based approach in teaching Senior High School subjects.
2. Identify the effectiveness of technology based approach towards modular or distance learning.
3. Determine the impact of technology on learners engagement process into learning outcomes.
4. Identify challenges met by teachers and learners in adapting technology- based approaches.
5. Craft lesson plan exemplars aligned or utilizing with technology based approaches.

Design / Methodology / Approach:

The researcher employed mixed method in data gathering. Moreover, a descriptive research designed was utilized with the questionnaire serving as the primary data collection tool. Interviews were done from which the respondents provided deeper insights into the opportunities and challenges of using technology in education. The said interviews focused on how technology has changed instructional strategies and learning environments.

Findings:

A survey was conducted with Senior High School teachers to assess the level of technology integration and its impact on the teaching and learning process. Moreover, the same set of survey-questionnaire was administered to students to gathered data with regards to their experiences with technology in the classroom. In terms of teacher's perception of technology-based approaches in teaching, it shows that most teachers are aware of the benefits and positive outcome using the said approach. Also, most teachers feel confident learning new computer skills and they are able to use different technology-based learning strategies to find teaching materials and resources for better understanding of the learners. Lastly, the results revealed that while technology-based approaches are increasingly integrated into senior high school subjects, it offered a practical understanding of how digital tools are used in real-time and how students interact with these tools from which teaching and learning process took place.

Research Limitations / Implications:

The study was limited only with the responses of teachers from Senior High School of Fernando Air Base Integrated National High School for the 1st semester of the School-Year 2022-2023.

Originality / Value:

This study focused on the integration of technology-based approaches in teaching senior high school subjects and their impact on students' engagement, learning outcomes, and teaching strategies. The study emphasized the use of technology- based teaching and learning offering various interesting ways which includes educational videos and other social media platforms that will make the learning process more meaningful. It is holistic since it further investigates the use of technology-based approach in teaching and learning.

Recommendations:

1. It is recommended to have a rigid training for teachers on the use of effective technology in the teaching and learning process.
2. Ensure that schools have the necessary computer laboratory room including internet access and devices, to support technology-based learning.
3. Provide hands-on activities among the learners to ensure that everybody has an equitable access to technology.
4. Design lesson plan exemplars utilizing the technology- based approaches.

Keywords:

Technology-Based Approach, ICT Integration, Senior High School subjects, teaching.