



PROFICIENCY PULS

*Advancing Student Skills Through
Systematic Software Insights*

Best Practice II

Title: ProficiencyPulse- Advancing Student Skills through Systematic Software Insights.

Objectives:

Establish a well systematic strategy with digital tools to achieve the specific goals of Outcome-Based Education (OBE). The key objectives of this practice include;

- Streamline the mapping of program and course outcomes, ensuring alignment with educational objectives.
- Efficient design and review of curriculum components, empowering educators to structure courses effectively.
- Provide a centralized platform for managing assessments, including the creation, distribution, and grading of assessments tied to specific learning outcomes.
- Empowers administrators and educators to make informed decisions by analyzing generated data, identifying strengths, and areas for improvement in the curriculum.
- Tracking individual student performance, facilitate targeted support and cultivate a culture of continuous improvement

Context:

Traditional spreadsheet-based method has several limitations such as

- Alignment may require manual updates and is more prone to errors during data entry and formula application.
- Multiple spreadsheets may lead to fragmented data, making it challenging to maintain consistency and accuracy across different documents.
- Curriculum design in spreadsheet may lack specialized features for educational planning and might require more manual effort.
- Assessments in spreadsheet may lack automated features for managing the entire assessment lifecycle, potentially increasing the workload for educators.
- Managing large datasets in Excel may become cumbersome and less efficient as the volume of data increases

While Excel is a versatile tool, digital tools designed to specifically address the unique needs of Outcome-Based Education is being practising in the institution as it provides a more efficient, streamlined, and comprehensive solution.

Practise:

The DeQ-OBE software provides a comprehensive solution for calculating and managing attainment levels, allowing educators to assess student performance systematically. The key steps involved are

- Educators define various direct and indirect assessment methods and the target level is being upgraded every 3 year.
- Evaluation parameters are systematically mapped with specific COs
- The DeQ-OBE software automates the matching of evaluation components with POs PSOs.
- Faculty members enter student marks based on the defined evaluation parameters.
- The software automatically calculates the attainment level of each student based on the entered marks and the predefined target level.
- The software identifies students whose attainment levels fall below the set target. These students will be provided remedial measures
- One of the criteria for forthcoming academic year planning for a particular batch will be the attainment of unmet outcomes of previous academic year

Evidence of success

The success of our OBE implementation is evident in the systematic calculation of attainment levels, identification of students below set benchmarks, and the implementation of targeted remedial measures. This approach ensures that every student attains the prescribed POs and PSOs. OBE provides a solid foundation for individuals to embrace lifelong learning by fostering a culture of continuous improvement, emphasizing practical skills, and instilling a mindset of adaptability and curiosity.

Problems encountered and resources required

Initial learning curve for users and potential integration challenges with existing platforms were the problems encountered. Regular training sessions for users and technical support can overcome the hurdles.

