

## **BEST PRACTICE 1**

1. **Title of Practice 1: Grant-in-aid Scheme for Funding Innovative Projects**
2. **Objective:** The primary objective of the Grant-in-aid scheme is to encourage both faculty members and students to engage in research and development (R&D) activities, fostering a culture of innovation within the institution.
3. **Context:** Securing external research funding is often challenging, and faculty and students may face financial barriers when trying to implement their innovative ideas. To overcome these obstacles and provide the necessary financial support, the institute launched the Grant-in-aid scheme. This internal funding initiative is designed to offer the assurance of resources for research and innovation, making it easier for faculty and students to pursue their projects.
4. **Practice:** The Grant-in-aid scheme is made available twice a year across all departments. Faculty members and students are encouraged to submit project proposals for funding, with grants of up to Rs. 10 lakhs available per project. This initiative ensures that the best and most promising projects receive financial backing, promoting a thriving research environment within the institute.
5. **Evidence of Success:** During the academic year, 144 project applications were submitted under the scheme. Out of these, 94 proposals were granted funding, totalling Rs. 1.8 crores. This resulted in the production of high-quality research papers, innovative products, and several filed patents. The success of the scheme has significantly contributed to advancing research and innovation at the institute.
6. **Problems Encountered and Resources Required:**
  - **Problems:** The primary challenge faced was establishing an effective monitoring and evaluation system to assess the progress and performance of funded projects.
  - **Resources:** The scheme requires a dedicated institutional R&D budget to support the financial aspects of the projects and ensure sustainability.

## **BEST PRACTICE 2**

1. **Title of the Practice: Ongoing Alignment and Revision of Syllabus to Meet Industry Demands and Technological Advancements**
2. **Objectives of the Practice:** The practice aims to enhance student employability by ensuring that the education provided aligns with current industry requirements. It focuses on dynamic curriculum development and equips students with the skills necessary for future challenges.
3. **Context:**
  - **Contextual Features:** Developing a syllabus that meets global standards while considering industry needs is essential. This task requires a thorough understanding of global trends, industry expectations, and academic quality.
  - **Challenges:** Regularly updating the curriculum, providing adequate faculty training, and balancing theoretical concepts with practical, industry-relevant skills are significant challenges.
4. **The Practice:** The institution conducts continuous research and benchmarking, comparing the syllabus against international academic benchmarks (e.g., MIT OpenCourseware, Stanford University) and current industry demands. This ensures that the curriculum aligns with global standards.
  - **Uniqueness:** The practice uniquely integrates real-time industry feedback to facilitate agile curriculum updates. By emphasizing ongoing research and benchmarking, the institution maintains a globally competitive syllabus. This alignment ensures that students are equipped to tackle real-world industry challenges.
  - **Constraints:** The fast-paced changes in industry trends require frequent updates to the syllabus, which can place pressure on available resources and faculty expertise.
5. **Evidence of Success:** Positive feedback from employers regarding graduates' job readiness and the continuous improvement of student satisfaction surveys demonstrate the practice's success in bridging the gap between academia and industry, resulting in increased employability.
6. **Problems Encountered and Resources Required:**
  - **Problems:** Staying abreast of rapidly changing industry trends, ensuring faculty are adequately trained, engaging all relevant stakeholders, and addressing complexities related to technology integration.
  - **Resources:** The successful implementation of this practice requires investments in faculty development, technological upgrades, and strong industry partnerships.

**Notes (Optional):** Fostering a culture of adaptability, encouraging collaboration between academia and industry, and utilizing technology for effective communication are critical to the practice's success. Establishing ongoing feedback channels with stakeholders will further help in keeping the curriculum aligned with current industry needs.