

Implementation of the Strategic Plan Procedures for Biomedical Engineering Department

The department's strategic goals are focused on **six** key objectives. Accountability for execution and oversight is clearly assigned to specific institutional roles throughout the plan.

1. Academic Excellence and Curriculum Modernization

The goal is to ensure the curriculum remains highly relevant, competitive, and fully aligned with the requirements of the industry and leading international programs. The **Department's Scientific Committee** conducted a **comprehensive review and update** of the B.Sc. curriculum to ensure alignment with counterpart programs. Furthermore, the **Monitoring and Evaluation Officer** was responsible for engaging **stakeholders** from government ministries and the private sector in curriculum review committees to ensure graduates' skills meet evolving market demands.

2. High-Impact Research and Postgraduate Focus

The department aims to focus research output on addressing real-world challenges and increase the international visibility and impact of scientific publications. The **Department's Scientific Committee** was tasked with directing **postgraduate research projects** toward solving tangible problems within the industrial, health, agricultural, and environmental sectors. This committee was also responsible for implementing a **support and incentive system** to encourage faculty and students to publish in high-impact international journals indexed in Scopus and Clarivate.

3. Professional and Entrepreneurial Student Development

This objective focuses on enhancing professional skills training, particularly in innovation, to produce well-rounded graduates prepared for the modern biomedical industry. A **Designated Faculty Member (Implementation Officer)** led the effort to develop and integrate **training modules focused on entrepreneurship and innovation** to enhance student capabilities, with continuous monitoring provided by the **Monitoring and Evaluation Officer**.

4. Infrastructure, Resources, and Technology Integration

The objective is to significantly improve the department's physical and technical resources and implement an efficient electronic administrative system. A **Designated Faculty Member (Implementation Officer)** took the lead on multiple key projects: initiating the development of the department's **physical infrastructure** (including upgrading classrooms, laboratories, and engineering workshops); starting the process for **establishing new, specialized scientific laboratories** equipped with advanced technology; and deploying a university-wide unified **electronic management system** for all departmental operations to enhance administrative efficiency. Oversight for these actions is provided by the **Monitoring and Evaluation Officer**.

5. Faculty Development and Institutional Knowledge Leverage

The goal is to ensure continuous professional growth for faculty and staff and to strategically utilize senior academic expertise. The **Department's Scientific Committee** leveraged institutional knowledge by utilizing the expertise of retired professors in rare specializations through an **emeritus professor program**. Concurrently, a **Designated Faculty Member (Implementation Officer)** developed and implemented **comprehensive training programs** tailored to the specific needs of faculty and staff to enhance performance efficiency.

6. Collaboration, Accreditation, and Quality Governance

This objective ensures systematic progress toward fulfilling accreditation requirements, expanding the academic network, and maintaining effective monitoring. The **Monitoring and Evaluation Officer** conducted systematic work to fulfill requirements for national and international institutional and programmatic **accreditation** (e.g., ABET) and established formal **scientific cooperation and expertise-exchange agreements** with reputable local, regional, and international universities. Furthermore, the **Department's Scientific Committee** enriched the academic environment by **hosting visiting professors** from distinguished international universities.