

## **Department of Chemistry, Sonari College**

### **Perspective Plan for next five years**

#### **1. Education and Curriculum Enhancement:**

- a. Introduce experiential learning opportunities, such as internships, industry collaborations, and research projects, to provide students with practical skills and real-world applications of their knowledge.

#### **2. Teaching and Research Balance:**

- a. Emphasize a balanced approach to teaching and research, recognizing the importance of both in the new education policy NEP-2020.
- b. Implement mechanisms to support faculty members in maintaining a healthy balance, such as teaching load adjustments and targeted research sabbaticals.

#### **3. Technology Integration and Modernization:**

- a. Invest in state-of-the-art laboratory equipment and infrastructure to enhance research capabilities and stay at the forefront of technological advancements in chemistry.
- b. Promote the integration of computational tools, artificial intelligence, and data analytics in research and teaching to prepare students for the evolving landscape of chemistry.

#### **4. Interdisciplinary Collaborations:**

- a. Encourage faculty members to engage in interdisciplinary research initiatives within the department and across campus.
- b. Foster collaboration with other departments to promote a holistic approach to scientific inquiry and problem-solving.
- c. Create interdisciplinary research clusters that leverage the strengths of faculty members from various scientific disciplines.

#### **5. Community Engagement and Outreach:**

- a. Strengthen ties with local industries, research institutions, and community organizations to foster collaboration, knowledge exchange, and potential funding opportunities.
- b. Develop outreach programs to promote science education at the community level, engaging with schools and community groups to increase awareness and interest in chemistry.

Through this perspective plan, the Department of Chemistry aims to not only advance the frontiers of scientific knowledge but also prepare students for successful careers in academia, industry, and research, while contributing positively to the community and addressing global challenges through the lens of chemistry.