

# **A.D.B. First Grade College, Harapanahalli**

## **Programme Outcomes (PO's)**

### **DEPARTMENT OF BOTANY**

- **Knowledge and understanding:** 1. Diversity of plants in terms of structure, function, reproduction and ecological roles. 2. The evaluation and assessment of plant diversity.
- **Practical skills:** Giving opportunities to students to conduct experiments practically both in field and laboratory. 1. Study of plant morphology and anatomy. 2. Character correlation for Plant identification. 3. Study of phytohormones. 4. Study of plant diseases with reference to economic crops affected by micro-organisms.
- **Transferable skills:** 1. Use of information technology for accumulation and sharing of data. 2. Dissemination of scientific ideas in writing and orally. 3. Creation of team spirit. 4. Access of library resources. 5. Regularity, punctuality, devotion and Career planning.
- **Scientific Knowledge:** Use of principles of basic science and fundamental process to study and analyse the plant forms.
- **Modern tool usage:** Select and application of proper techniques and modern instruments for physiological activities of plants.
- **The Botanist and society:** Apply resource based knowledge to assess and access plant diversity, its importance for society and ecology, health and hazards, legal and environmental issues and conservation of biodiversity practice with responsibility.
- **Ethics:** Application of moral and ethical principles to mitigate environmental issues and biodiversity conservation.
- **Design/development of solutions:** Formulate new concepts for a green world, sustainable development, betterment of human health specifically from medicinal plants, new formulation of phyto-chemical contents to meet specific need and eco-friendly environment.

### **DEPARTMENT OF ZOOLOGY**

- Students gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms.
- Analyse complex interactions among the various animals of different phyla, their distribution and their relationship with the environment.
- Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
- Understands the complex evolutionary processes and behaviour of animals.

- Correlates the physiological processes of animals and relationship of organ systems.
- Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species.
- Gain knowledge of Agro based Small Scale industries like poultry, apiculture, sericulture, fish farming, dairy farming and vermicompost preparation.
- Understands about various concepts of genetics and its importance in human health.
- Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties.
- Provides opportunity for the mobility of the student both within and across the world.
- Apply the knowledge and understanding of Zoology to one's own life and work.
- Develops empathy and love towards the animals.

## **DEPARTMENT OF CHEMISTRY**

- To understand basic concepts and facts in chemistry.
- To understand importance of chemistry in daily life.
- To develop a better understanding and reasoning of facts.
- To skill up for basic analytical tools.
- To have the skills of various laboratory techniques used in chemical laboratories & chemical Industries.
- To make efficient for various spectroscopic analysis.