

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

### **Program Specific Outcomes (PSO's)**

#### **DEPARTMENT OF BOTANY**

- Students will be able to compare and contrast the characteristics of plants, algae and fungi which were differentiate from each other and develops into other forms of life.
- Students will be able to explain the ecological interrelation of life on the earth by tracing energy and nutrient flow through the environment in different strata. They will be able to relate the physical features of the environment to the structure of populations, communities and ecosystems.
- Students will be able to explain how Plants function at the level of the gene, genome, cell, tissue, Flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants.
- Students will be able to collect relevant taxonomical information of plants and accurately interpret the data to evaluate and formulate a position of plant to its phylogenetic level.

#### **DEPARTMENT OF ZOOLOGY**

- Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology.
- Analyse the relationships among animals, plants and microbes.
- Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Entomology, Nematology Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology.
- Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture and Medicine.
- Gains knowledge about research methodologies, effective communication and skills of problem solving methods.
- Contributes the knowledge for Nation building.

#### **DEPARTMENT OF CHEMISTRY**

- To provide laboratory experience to the students by conducting experiments based on topics taught in theory.
- To import the knowledge of general chemistry covering all the aspects namely inorganic, organic, physical & analytical chemistry.
- To analyze, design & develop solutions by applying fundamental concepts of chemistry.
- To learn & apply various principles & laws in chemistry.
- To adopt emerging information and innovative ideas and solutions in chemistry.