

A D B First Grade College, Harapanahalli

Program Specific Outcomes (PSO's)

Department of Physics

This undergraduate course in Physics would provide the opportunity to the students:

- To understand the basic laws and explore the fundamental concepts of physics
- To understand the concepts and significance of the various physical phenomena.
- To carry out experiments to understand the laws and concepts of Physics.
- To apply the theories learnt and the skills acquired to solve real time problems.
- To acquire a wide range of problem solving skills, both analytical and technical and to apply them.
- To enhance the student's academic abilities, personal qualities and transferable skills this will give them an opportunity to develop as responsible citizens.
- To produce graduates who excel in the competencies and values required for leadership to serve a rapidly evolving global community.
- To motivate the students to pursue PG courses in reputed institutions.
- This course introduces students to the methods of experimental physics. Emphasis will be given on laboratory techniques specially the importance of accuracy of measurements.
- Providing a hands-on learning experience such as in measuring the basic concepts in properties of matter, heat, optics, electricity and electronics

Department of Mathematics

- A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology.
- A student should get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences.
- Student is equipped with mathematical modelling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
- Student should be able to apply their skills and knowledge that is translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
- Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

Department of Electronics

- Provides the capacity to apply the technical concepts of Electronics in the design, development and implementation of application oriented real time systems.
- Provides ability to solve complex problems in Electronics domain using hardware and software tools.

- Ability to acquire social and environmental awareness with ethical responsibilities to have a successful career in real-world.
- Design system components that meet the requirement of public safety and offer solutions to the societal and environmental concerns.
- Utilize the basic knowledge in mathematics, science in Electronics field.
- This program has a unique positioning because it deals with basic sciences, physical phenomenon, and mathematical concepts and at the same time provides an entry into the tech savvy world of Electronics. The syllabus focuses on competencies required by the industry to ensure employability. Students can also become entrepreneurs in this field and become designers in Printed Circuit Boards and Electronics projects.
- To impart knowledge in fundamental aspects of all branches of Electronics.
- To teach students the principles of Electronics.
- To create inquisitiveness and problem solving skills.
- To prepare students for higher education and career in Electronics.
- To develop skills in the proper handling of apparatus and components
- To make students apply Electronics in their day to day life.
- To make the students a responsible citizen.