



**SOLAPUR UNIVERSITY, SOLAPUR**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**Information Technology**

**Programme Educational Objectives and Outcomes**

**A. Program Educational Objectives**

1. To provide students with a sound foundation in the mathematics, science & technology, necessary to analyze & solve real world problems and to prepare them for Graduate studies and research.
2. To develop the ability among students to gain knowledge about core and application domain subjects in IT, use them to analyze & design real world and engineering problems, strengthening them with latest technologies exhibiting modernization of engineering practices.
3. To provide students necessary background to design a system, component or process to meet desired needs keeping in to account the economic, environmental, social, political, health & safety, manufacturability and sustainable factors.
4. To provide opportunity for students to work as part of teams on various projects which are multidisciplinary in nature requiring logical and programming skills.
5. To promote student awareness for life-long learning and to introduce them to professional ethics to build a good social personality.
6. To build communication & presentation skills required to represent innovative ideas more effectively.

**B. Program Outcomes**

- a. An ability to apply knowledge of mathematics, science, and engineering.
- b. An ability to design and conduct experiments, as well as to analyze and interpret data.
- c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- d. An ability to function on multidisciplinary teams.
- e. An ability to identify, formulates, and solves engineering problems.
- f. An understanding of professional and ethical responsibility.
- g. An ability to communicate effectively.
- h. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context,
- i. A recognition of the need for, and an ability to engage in life-long learning,
- j. A knowledge of contemporary issues, and
- k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.