

# Walchand Institute of Technology, Solapur

## Department of Civil Engineering

### Program Education Objectives



1. To prepare the students *with engineering fundamental leading to excellent performance at university examination and* successful careers in Civil Engineering that meet the societal need of national and multinational organizations.
2. To develop the technical ability amongst the students to synthesize data and technical concepts for application to civil engineering problems and projects.
3. To provide opportunity for students, to work as part of teams on multidisciplinary projects.
4. To provide students with sound foundation in mathematical, scientific and Civil Engineering fundamentals necessary to formulate, solve and analyse Civil Engineering problems and to prepare them for higher studies and *competitive examination*.
5. To promote student awareness of the life-long learning and to introduce them to professional ethics and codes of professional practice.
6. To promote a sense of responsibility and respect towards society and its heritage.
7. To promote the students to put on constant efforts in improving quality of life, by using new and *sustainable* technology along with relevant application software.

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### Program Outcomes



The programme and course outcomes of Civil Engineering:

- a) Graduates will demonstrate the basic knowledge of mathematics, science and engineering.
- b) Graduates will demonstrate ability to design and conduct experiments, interpret and analyse data and report results.
- c) Graduates will demonstrate an ability to design a civil engineering structure / project acceptable and useful to society that meets desired specifications and requirements.
- d) Graduates will demonstrate an ability to function as a part of engineering and science laboratory teams, and multidisciplinary design teams and render services to society.
- e) Graduates will demonstrate the ability to identify, formulate and solve civil engineering problems faced by the society.
- f) Graduates will demonstrate the understanding of their professional and ethical responsibilities.
- g) Graduates will be able to communicate effectively in verbal and written forms.
- h) Graduates will have the confidence to apply engineering solutions in global and social context, with emphasis on environment protection and sustainable development.
- i) Graduates should be capable of self education and clearly understand the value of lifelong learning which will help to succeed in competitive examinations.
- j) Graduates will be broadly educated and will have an understanding of the impact of engineering on society and demonstrate awareness of contemporary issues.
- k) Graduates will be familiar with modern and relevant engineering software tools and equipment to analyse civil engineering problems.