

**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
DEPARTMENT OF CIVIL ENGINEERING**

**Vision of the Institution:**

Striving for a symbiosis of technological excellence and human values.

**Mission of the Institution:**

To arm young brains with competitive technology and nurture holistic development of the individuals for a better tomorrow.

**Vision of the Department:**

To strive for excellence in order to make the students better citizens with technical knowledge and social awareness.

**Mission of the Department:**

To impart knowledge in the latest technologies to the students of civil engineering to fulfill the growing needs of the society.

**Program Educational Objectives (PEOs)**

To provide a better understanding of basic sciences and fundamentals of civil engineering.

To develop competence in latest technologies to serve the industry or pursue higher studies.

To inculcate professionalism with effective communication skills and ethical values.

**Program Specific Outcomes (PSOs)**

Understand various concepts of basic engineering sciences and mathematics to learn advanced concepts of Civil Engineering and apply them to practical problems.

Apply principles of various specializations of Civil engineering including structural engineering, transportation engineering, environmental engineering, water resources engineering and Geotechnical engineering to tackle engineering problems.

Acquire knowledge of ethical practices, communication skills, technical report writing skills and collaborative effort leading to lifelong learning.

## PROGRAM OUTCOMES

### Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Academic Calendar for the academic year 2022-2023.

Date	Day	Curricular	Activity
29.08.2022	Monday	BE V & VII - Subjects registration by students	
30.08.2022	Tuesday	BE V & VII - Subjects registration by students	
31.08.2022	Wednesday	BE V & VII - Subjects registration by students	
01.09.2022	Thursday	BE V & VII - Subjects registration by students	
02.09.2022	Friday	BE V & VII - Subjects registration by students	
03.09.2022	Saturday	PUBLIC HOLIDAY	
04.09.2022	Sunday	PUBLIC HOLIDAY	
05.09.2022	Monday	Class work for B.E. V & VII – Semester	