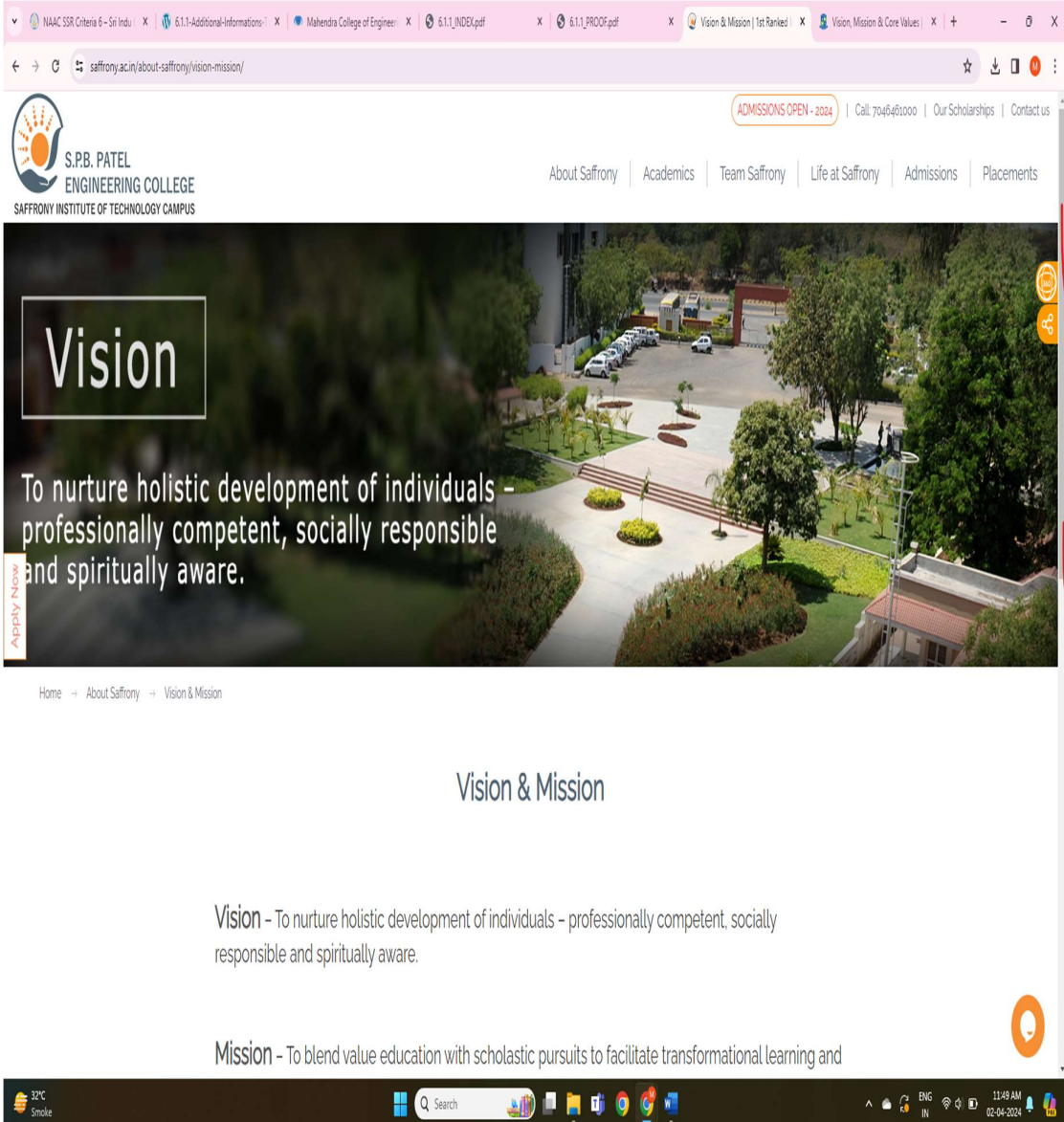


## S.P.B. PATEL ENGINEERING COLLEGE

### DISPLAY OF VISION MISSION AND CORE VALUE STATEMENTS

#### WEBSITE



The screenshot shows a web browser window displaying the website for S.P.B. Patel Engineering College. The browser's address bar shows the URL [saffrony.ac.in/about-saffrony/vision-mission/](http://saffrony.ac.in/about-saffrony/vision-mission/). The website header includes the college logo, the name "S.P.B. PATEL ENGINEERING COLLEGE", and the location "SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS". A navigation menu contains links for "About Saffrony", "Academics", "Team Saffrony", "Life at Saffrony", "Admissions", and "Placements". A banner for "ADMISSIONS OPEN - 2024" is visible, along with contact information: "Call: 7048461000" and "Our Scholarships | Contact us".

The main content area features a large image of the college campus with the word "Vision" in a white box. Below the image, the vision statement is displayed: "To nurture holistic development of individuals - professionally competent, socially responsible and spiritually aware." A vertical "Apply Now" button is on the left side of the image.

Below the image, the breadcrumb navigation reads: "Home → About Saffrony → Vision & Mission".

The section is titled "Vision & Mission".

**Vision** - To nurture holistic development of individuals - professionally competent, socially responsible and spiritually aware.

**Mission** - To blend value education with scholastic pursuits to facilitate transformational learning and

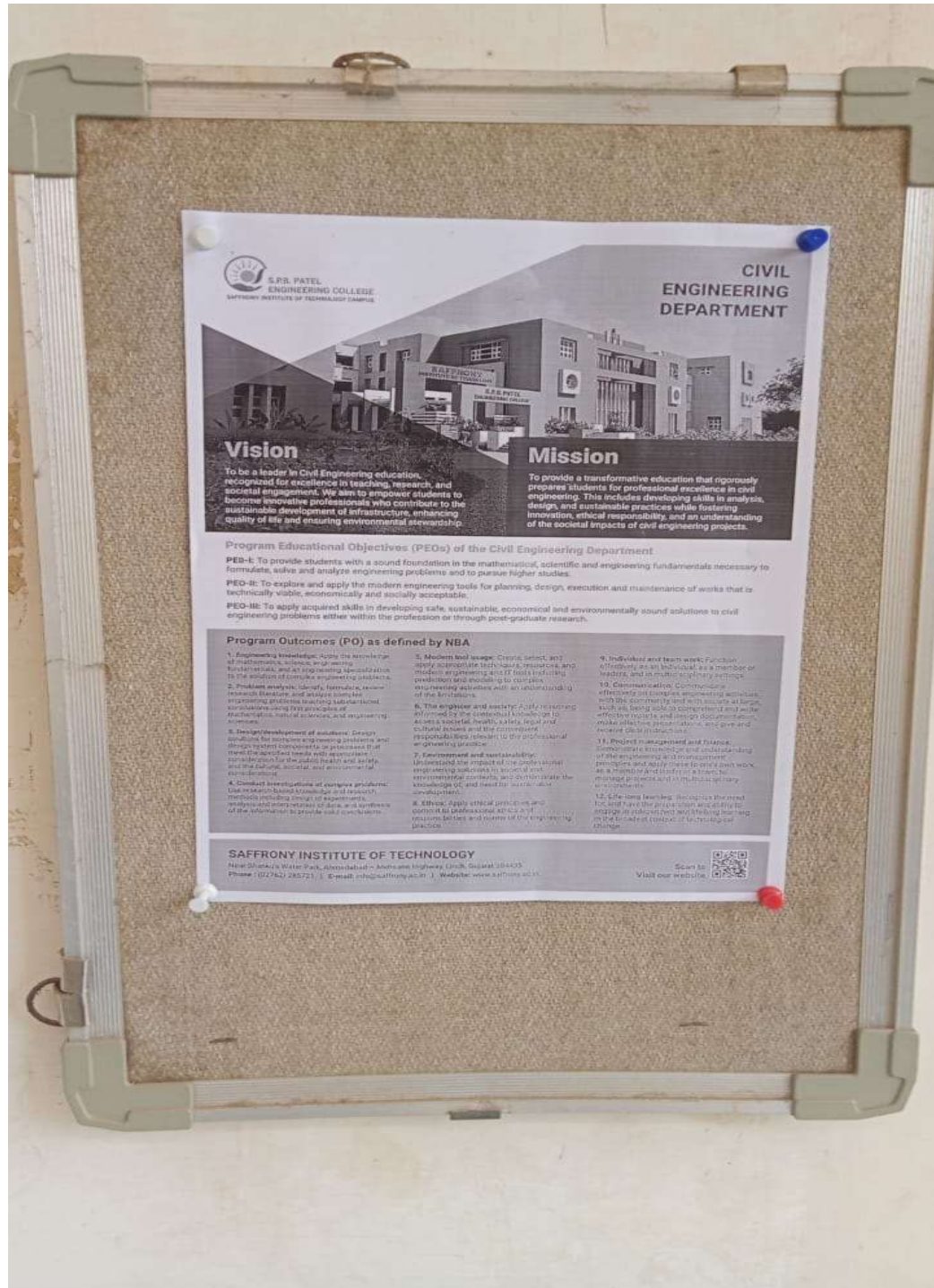
The Windows taskbar at the bottom shows the system tray with a search bar, task icons, and system information: 32°C Smole, 11:49 AM, and 02-04-2024.

## INSTITUTION




## DEPARTMENTAL VISION AND MISSION

### DEPARTMENT OF CIVIL ENGINEERING



**CIVIL  
ENGINEERING  
DEPARTMENT**



**Vision**

To be a leader in Civil Engineering education, recognized for excellence in teaching, research, and societal engagement. We aim to empower students to become innovative professionals who contribute to the sustainable development of infrastructure, enhancing quality of life and ensuring environmental stewardship.

**Mission**

To provide a transformative education that rigorously prepares students for professional excellence in civil engineering. This includes developing skills in analysis, design, and sustainable practices while fostering innovation, ethical responsibility, and an understanding of the societal impacts of civil engineering projects.

**Program Educational Objectives (PEOs) of the Civil Engineering Department**

**PEO-I:** To provide students with a sound foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to pursue higher studies.

**PEO-II:** To explore and apply the modern engineering tools for planning, design, execution and maintenance of works that is technically viable, economically and socially acceptable.


**PEO-III:** To apply acquired skills in developing safe, sustainable, economical and environmentally sound solutions to civil engineering problems either within the profession or through post-graduate research.

**Program Outcomes (PO) as defined by NBA**

<p>1. <b>Engineering knowledge:</b> Apply the fundamentals of mathematics, science, engineering fundamentals and design to solve complex engineering problems.</p> <p>2. <b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems using the principles of Mathematics, natural sciences, and engineering sciences.</p> <p>3. <b>Design/development of solutions:</b> Design solutions for selected 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 consequences.</p> <p>4. <b>Conduct investigations of complex problems:</b> 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.</p>	<p>5. <b>Modern tool usage:</b> 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.</p> <p>6. <b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequences of decisions. Understand the implications for the professional and public.</p> <p>7. <b>Environment and sustainability:</b> Understand the impact of the professional engineering and technology on the environment and society, and contribute to the development of sustainable solutions.</p> <p>8. <b>Ethics:</b> Apply ethical principles and commit to a职业道德, and uphold the principles of integrity and honesty in professional engineering practice.</p>	<p>9. <b>Individual and team work:</b> Function effectively as an individual or as a member of a team in a multi-disciplinary setting.</p> <p>10. <b>Communication:</b> Communicate effectively on engineering activities with the community and with industry at large, including being able to comprehend and write effective reports and design documents, make effective presentations, and give and receive clear instructions.</p> <p>11. <b>Project management and finance:</b> Apply basic principles and understanding of the engineering and management practices and apply these to one's own work, as a member or leader in a team, to manage projects and activities with limited resources.</p> <p>12. <b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.</p>
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ENGINEERING COLLEGE  
SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

## DEPARTMENT OF MECHANICAL ENGINEERING

**MECHANICAL ENGINEERING DEPARTMENT**

**Vision**  
To stand at the forefront of Mechanical Engineering education and research, producing graduates who are pioneers in designing and improving mechanical systems for a sustainable future. We strive to cultivate professionals who are not only technically adept but also socially responsible and capable of addressing global challenges.

**Mission**  
To deliver an outstanding engineering education that combines thorough analysis with hands-on experience. Our mission emphasizes creativity in design, efficiency in problem-solving, and the ethical application of mechanical engineering principles to address challenges in production, design, thermal and allied industries.

**Program Educational Objectives (PEOs) of the Mechanical Engineering Department**

**PEO-I:** To apply the overall knowledge of Mechanical Engineering along with concepts of Mathematics, Science, Communication and Computing skills to understand specific problem areas and finding the optimal solutions for the same.

**PEO-II:** To Develop the ability of modelling & analytical skills for problem solving and decision making to deal with latest technological challenges in industry and Research.

**PEO-III:** To Undertake challenges in design and development related to mechanical engineering put forth by academia and industry.

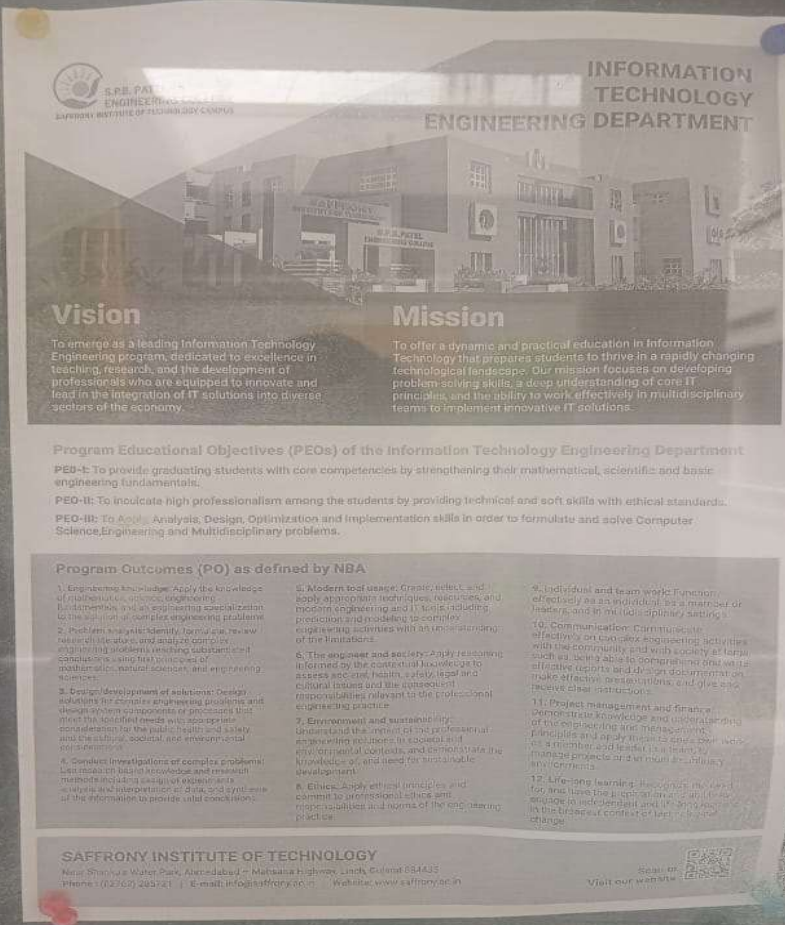
**Program Outcomes (PO) as defined by NBA**

- 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, as a member or leader, and in multidisciplinary settings.
- 10. Communication:** Communicate effectively on complex engineering activities with the 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 lifelong learning in the broadest context of technological change.

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## DEPARTMENT OF INFORMATION TECHNOLOGY ENGINEERING



**INFORMATION TECHNOLOGY ENGINEERING DEPARTMENT**

**Vision**  
To emerge as a leading Information Technology Engineering program, dedicated to excellence in teaching, research, and the development of professionals who are equipped to innovate and lead in the integration of IT solutions into diverse sectors of the economy.

**Mission**  
To offer a dynamic and practical education in Information Technology that prepares students to thrive in a rapidly changing technological landscape. Our mission focuses on developing problem-solving skills, a deep understanding of core IT principles, and the ability to work effectively in multidisciplinary teams to implement innovative IT solutions.

**Program Educational Objectives (PEOs) of the information Technology Engineering Department**

**PEO-I:** To provide graduating students with core competencies by strengthening their mathematical, scientific and basic engineering fundamentals.

**PEO-II:** To inculcate high professionalism among the students by providing technical and soft skills with ethical standards.

**PEO-III:** To Apply Analysis, Design, Optimization and Implementation skills in order to formulate and solve Computer Science, Engineering and Multidisciplinary problems.

**Program Outcomes (PO) as defined by NBA**

1. <b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.	5. <b>Modern tool usage:</b> 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.	9. <b>Individual and team work:</b> Function effectively as an individual and a member of teams in multidisciplinary settings.
2. <b>Problem analysis:</b> Identify formulates, review research, the scope, and analyze complex engineering problems, reaching substantial conclusions, using the principles of mathematics, natural sciences, and engineering sciences.	6. <b>The engineer and society:</b> 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.	10. <b>Communication:</b> Communicate effectively on complex engineering activities with the 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.
3. <b>Design/development of solutions:</b> 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 consequences.	7. <b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge, skills, and need for sustainable development.	11. <b>Project management and finance:</b> Demonstrate knowledge and understanding of the principles and apply business practices as a member and leader in a team to manage projects and various financial environments.
4. <b>Conduct investigations of complex problems:</b> Use research tools to investigate and research methods to solve complex engineering problems in design, development, and synthesis of the information to provide valid conclusions.	8. <b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	12. <b>Life-long learning:</b> Recognize the need for, and engage in, life-long learning, and take initiative in the broader context of life-long learning.

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## DEPARTMENT OF COMPUTER ENGINEERING

**COMPUTER ENGINEERING DEPARTMENT**

**Vision**

To be recognized as a center of excellence in Computer Engineering, where students are nurtured to become leaders in technological innovations, with a strong foundation in software engineering principles and a commitment to addressing societal needs through sustainable computing solutions.

**Mission**

To provide a comprehensive education that encompasses the theoretical and practical aspects of Computer Engineering. We are committed to fostering an environment where students learn to design, develop, and implement innovative computer-based solutions, preparing them for successful careers in the ever-evolving tech industry.

**Program Educational Objectives (PEOs) of the Computer Engineering Department**

**PEO-I:** To provide graduating students with core competencies by strengthening their mathematical, scientific and basic engineering fundamentals.

**PEO-II:** To be Proficient in successfully designing innovative solutions to real life problems that are technically sound, economically viable and socially acceptable.

**PEO-III:** To inculcate a passion towards higher education, research and lifelong learning in the field of Computer Science and Electronics.

**Program Outcomes (PO) as defined by NBA**

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, and engineering fundamentals to solve technical or creative 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:** Apply engineering design to 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 consequences.
- 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, applying technical, prediction, and modeling to solve 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, as a member or leader, and as a participant in diverse settings.
- 10. Communication:** Communicate effectively using oral, written, graphical, computing, and other media in engineering activities and settings, including technical reports, presentations, design documentation, proposals, and design descriptions, as well as effective communication, for global and multicultural contexts.
- 11. Project management and finance:** Demonstrate knowledge and understanding of the principles and management of projects and apply these to their own work, as a member or leader of a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning:** Recognize the need for, and engage in, continuous and self-directed learning in individual and lifelong learning contexts in the context of technological changes.

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