DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING
BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE

Program Outcomes (POs):

PO No.	Program Outcomes
01	Engineering Knowledge: Ability to apply knowledge of mathematics, science and engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
02	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.
03	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.
04	Conduct investigations of complex problems: Use research - based knowledge and research methods including design of experiments, analyses and interpretation of data, and synthesis of the information to provide valid conclusions.
05	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.
06	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.
07	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.
08	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
09	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary 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 multi-disciplinary 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.

Program Specific Outcomes (PSOs):

PSO No.	Program Specific Outcomes
PSO1	Exhibit the knowledge of basic science, mathematics, electronic system design, and programming techniques to meet the industrial needs with a sense of personal, social, and moral responsibility
PSO2	Apply electronics, instrumentation, and control techniques to design, model, analyze, and develop systems using modern tools and engage in life long learning

Program Educational Objectives (PEOs):

PEO No.	Program Educational Objectives
I	To provide students with a solid foundation in basic science and engineering, instrumentation and interdisciplinary subjects that is necessary to excel in professional career and/or higher education.
II	To prepare students to meet the needs and face the challenges of real life as well as industry in terms of technical, economical and social feasibility.
III	To inculcate professionalism, communication skills, attitudes, team work and to adapt to the current trends by engaging in lifelong learning.
IV	To impart students with ethical practices and attitudes to meet the societal needs.