

No.	Programme Outcomes	Programme Performance Criteria (Measurement Dimensions)
PO(1)	an ability to apply knowledge of mathematics, science, and engineering appropriate to the BSE and ME disciplines;	Understand and apply the concepts, theories, laws and working principles, etc. of mathematics, science, and engineering relevant to the course/programme.
PO(2)	an ability to design and conduct experiments, as well as to critically analyse and interpret data;	Design experiments to acquire data for solving engineering problems. Select and conduct appropriate equipment/instrumentation for acquiring the required data. Interpret and analyze experimental data and draw logical conclusions.
PO(3)	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;	Identify and formulate engineering/design problems and specifications and establish problem statements. Synthesis a range of potential solutions for meeting the established design specifications. Evaluate and select suitable solutions within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability. Develop detail design specifications/prototypes and perform analysis and verification.
PO(4)	an ability to function on multi-disciplinary teams;	Participate in multi-disciplinary team discussion, respect team members' opinions, communicate ideas and make group decisions.
PO(5)	an ability to identify, formulate and solve engineering problems;	Identify and formulate engineering problems in unfamiliar situations. Research and collect information pertaining to the problem to assess the accuracy of the information. Develop, implement and monitor plan(s) to tackle and solve identified problem(s), and modify plan(s) whenever necessary.
PO(6)	an ability to understand professional and ethical responsibility;	Demonstrate knowledge of a professional code of ethics. Demonstrate an understanding of the impact of the engineering profession on society and the environment.
PO(7)	an ability to communicate effectively;	Produce well-organized reports related to the description of experiments, projects, or solutions to engineering problems. Give effective presentations and rational responses during dialogue sessions.
PO(8)	an ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety and environmental considerations to both workers and the general public;	Demonstrate understanding on the environmental/health/safety and economic impacts of engineering solutions. Take into consideration of the impact of engineering solutions in a global and societal context, especially

		the importance of health, safety and environmental issues to both workers and the general public.
PO(9)	an ability to stay abreast of contemporary issues;	Aware of the contemporary issues and development related to engineering and technology. Identify the root causes of contemporary problems and propose possible solutions to contemporary problems.
PO(10)	an ability to recognize the need for, and to engage in life-long learning;	Recognize the importance of pursuing professional development continuously. Access and acquire information effectively and efficiently from a variety of sources and to learn new knowledge independently.
PO(11)	an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to the BSE and ME disciplines;	Use appropriate techniques, skills and contemporary engineering tools for facilitating engineering system design, control, analysis and fabrication.
PO(12)	an ability to use the computer/IT tools relevant to the BSE and ME disciplines along with an understanding of their processes and limitations.	Use computer/IT tools for technical reports, oral presentations and communications for engineering applications. Understand the working principles, benefits and limitations of modern tools and equipment.