

## Program Outcomes PO – MED – KTU Syllabus 2019

PO Designation Number	PO Type	Engineering graduates will be able to
ME – UG – PO 1	Engineering Knowledge	Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems
ME – UG – PO 2	Problem Analysis	Identify, formulate research literature and analyze complex engineering problems reaching sustainable conclusions using first principles of mathematics, natural sciences and engineering sciences
ME – UG – PO 3	Design and Development of Solutions	Design solutions for complex engineering problems and design components or processes that meet specified needs with appropriate consideration for public health and safety, and cultural, societal and environmental considerations
ME – UG – PO 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 information to provide valid conclusions
ME – UG – PO 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
ME – UG – PO 6	The Engineer and Society	Apply reasoning informed by contextual knowledge to assess societal, safety, health, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice
ME – UG – PO 7	Environment and Sustainability	Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development
ME – UG – PO 8	Ethics	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
ME – UG – PO 9	Individual and Team Work	Function effectively as an individual and as a member or leader in diverse teams and in multi disciplinary settings
ME – UG – PO 10	Communication	Communicate effectively on complex engineering activities with the engineering community and 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
ME – UG – PO 11	Project Management and Finance	Demonstrate knowledge and understanding of 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
ME – UG – PO 12	Life – long Learning	Recognize the need for and have the preparation and ability to engage in independent and life-long learning broadest context of technological change

## Program Specific Outcomes PSOs

After studying this program, the students will be able to:

<b>PSO 1</b>	<b>Employability</b>	Establish a career in Mechanical and interdisciplinary areas
<b>PSO 2</b>	<b>Specialization knowledge</b>	Evolve engineering solution to the problems of Design, Manufacturing, Thermal and Industrial engineering domains
<b>PSO 3</b>	<b>Social worth</b>	Apply the acquired knowledge in Mechanical Engineering for the betterment of society

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

In the first few years on the career, the graduates of Electronics and Communication Engineering of Government College of Engineering Wayanad, through the skills earned during their course of study should be able to:

<b>PEO Designation Number</b>	<b>PEO Description</b>
<b>ME/PEO-I Core Competence</b>	Impart knowledge with strong base in mathematics, science and engineering theory that enable students to solve the challenges in mechanical engineering.
<b>ME/PEO-II Breadth</b>	Facilitate graduates with basic knowledge in related disciplines to tackle real life problems leading to production, innovation and technological advancements.
<b>ME/PEO-III Professionalism</b>	Inculcate in graduates good management practices, interpersonal skills and entrepreneurial discipline with strong adherence to ethics and values.
<b>ME/PEO-IV Learning Environment</b>	Foster a passion for mechanical engineering to pursue higher studies and lifelong learning in their professional careers.

