

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM-636309
DEPARTMENT OF AGRICULTURAL ENGINEERING

Program Educational Objective (PEOs)

- PEO1 To comprehend, analyze, design and develop innovative products and provide solution for the real-life problems in agricultural field
- PEO2 To adopt modern techniques, advanced Agro meteorological methods, scientific and organic fundamentals required to solve industrial and societal problems.
- PEO3 To solve the most important realistic problems in the field of sustainable agriculture by applying gained competencies.
- PEO4 To enable and face the rural reality through learning experience and to get an exposure to a new rural area and the socio- economic condition of people.
- PEO5 Acquire knowledge of recent trends and Technology and solve problem in industry and farmers.

Program Outcomes (POs)

- PO1 Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex problems in Agricultural Engineering.
- PO2 Identify, formulate, review research literature, and analyze Agricultural Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3 Design the 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
- PO4 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 related to Agricultural Engineering.
- PO5 Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Agricultural Engineering activities with an understanding of the limitations.
- PO6 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
- PO7 Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
- PO8 Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 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.

PO11 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

PO12 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)

PSO1 Graduates are enabled to perform in planning judicious utilization of natural resources through existing soil, water conservation techniques and various irrigation and drainage methods.

PSO2 Graduates are able to design the process, evaluate and come out with solutions for farm implements through adequate farm power for sustainable agriculture.

PSO3 Graduates are able to apply the comprehensive knowledge of engineering practices in production of agricultural products and further development with effective value added technologies and become strong in quality control.