



# DEPARTMENT OF ELECTRICAL ENGINEERING

## National Institute of Technology Calicut

### Programme Educational Objectives of M. Tech Programme in High Voltage Engineering

<b>PEO1</b>	To equip the electrical engineering graduates with enhanced knowledge and skills in the area of High Voltage Engineering so as to excel in various sectors of modern power industry/utility and/or teaching and/or higher education and/or research.
<b>PEO2</b>	To transform electrical engineering graduates to expert High Voltage engineers so that they could comprehend, analyze, design and create novel products and strategic solutions to real life problems in the area of High Voltage Engineering that are technically sound, economically feasible and socially acceptable.
<b>PEO3</b>	To make the engineering graduates capable of maintaining lifelong learning and upkeeping professional ethics and social values while addressing the technical and social challenges.
<b>PEO4</b>	To improve the communication skills and willingness to work in groups and to develop multidisciplinary approach in problem solving.

### Programme Outcomes of M. Tech Programme in High Voltage Engineering

<b>PO1</b>	contemporary issues related to High Voltage Engineering with a global perspective.
<b>PO2</b>	Ability to critically analyze and carry out detailed investigation on multifaceted complex problems in the area of High Voltage Engineering and envisage advanced research in thrust areas.
<b>PO3</b>	Ability to identify, analyze and solve real-life engineering problems in the area of High Voltage Engineering and provide strategic solutions satisfying the safety, cultural, societal and environmental aspects/needs.
<b>PO4</b>	Ability for continued pursuance of research and to design, develop and propose theoretical and practical methodologies in the area of High Voltage Engineering.
<b>PO5</b>	Ability to develop and utilize modern tools for modeling, analyzing and solving various engineering problems related to High Voltage Engineering.
<b>PO6</b>	Willingness and ability to work in a team of engineers/researchers with mutual understanding to take up sophisticated challenges, in the field of High Voltage Engineering, lead and motivate the group to inculcate multidisciplinary and collaborative approach.
<b>PO7</b>	Willingness and ability to take up administrative challenges including the management of various projects of interdisciplinary nature and carry out the same in an efficient manner giving due consideration to societal, environmental, economical and financial factors.
<b>PO8</b>	Ability to express ideas clearly and communicate orally as well as in writing with others in an effective manner, adhering to various national and international standards and practices for the documentation and presentation of the content.
<b>PO9</b>	Willingness and ability to maintain lifelong learning and research by way of participating in various professional activities with a higher level of enthusiasm and commitment.
<b>PO10</b>	Willingness and ability to upkeep professional ethics and social values while functioning as a dedicated High Voltage Engineer, identifying solutions to various local and global problems faced by the society.
<b>PO11</b>	Ability to examine, think and devise solutions to real life engineering problems in the area of High Voltage Engineering in an independent manner by way of critical self-evaluation and adaptation of suitable corrective measures continuously.