

Electrical Engineering Department

1.	Name of the Program	SOFT COMPUTING TECHNIQUES
2.	TAC No.	ICT-108, National Level
3.	Dates	09/02/2026 to 13/02/2026
4.	Venue	Online mode
5.	Target Group	Faculty Members of Polytechnic / Engineering Colleges
6.	Course Coordinator	Prof. Lini Mathew
7.	Objectives/ Learning Outcomes	The participants shall be apprised about the concepts of Soft Computing Techniques such as Artificial Neural Network, Fuzzy Logic and different Nature Inspired Optimization Techniques. They will also be given exposure to implementation of these techniques by different software like Python/MATLAB. The participants will be provided assignment sheets for practice and will be evaluated at the end of the course.
8.	Course Contents	<ul style="list-style-type: none"> ➤ Introduction to Soft Computing Techniques ➤ Introduction to various Bio-inspired Optimization Techniques ➤ Various types of Artificial Neural Networks ➤ Type I and Type II Fuzzy Control Systems ➤ Discussion on use cases of various Bio-inspired Optimization Algorithms like GA, PSO, ACO, WOA etc. ➤ Deep Learning and Convolutional Neural Networks
9.	Methodology	The teaching-learning process of training program will include online theory lectures, doubt clearing sessions and case studies.