



# E&ICT ACADEMY

## NATIONAL INSTITUTE OF TECHNOLOGY

### WARANGAL – 506004, TELANGANA STATE – INDIA

#### Bio Inspired Algorithms in Engineering Optimization (19th – 28th November, 2018)

#### Lecture Schedule

Date	9AM – 11AM		11.15AM– 01:15PM	2.00PM-3.45PM	4-5.30PM
19.11.2018	Inauguration	Introduction to Optimization Prof Kasi Viswanathan	Linear Programming Prof Kasi Viswanathan	Simplex Method Prof Kasi Viswanathan	LAB
20.11.2018	Non Linear Programming Prof Kasi Viswanathan		Genetic Algorithm (GA)	LAB (Implementation of Algorithm using MATLAB)	
21.11.2018	Particle swarm optimization (PSO)		Channel Equalization/Robot path planning using PSO	LAB (Implementation of Algorithm using MATLAB)	
22.11.2018	Differential Evolution (DE)		Signal processing using DE	LAB (Implementation of Algorithm using MATLAB)	
23.11.2018	Bat Algorithm (BA)		Biogeography-based optimization (BBO)	LAB (Implementation of Algorithm using MATLAB)	
24.11.2018	Sine Cosine Algorithm		Object tracking using Sine Cosine Algorithm	LAB (Implementation of Algorithm using MATLAB)	
25.11.2018	Teaching Learning based Optimization Algorithm (TLBO)		Jaya Algorithm	LAB (Implementation of Algorithm using MATLAB)	
26.11.2018	Introduction to Neural Networks (NN)		System Identification using NN	LAB (Implementation of Algorithm using MATLAB)	
27.11.2018	Statistical tests for optimization algorithms		Multi Objective Optimization	LAB (Implementation of Algorithm using MATLAB)	
28.11.2018	Benchmarking and Evaluation of Evolutionary Algorithms: Foundations and Perspectives (Prof Swagatham Das)		How to publish research papers in reputed SCI Journals (Prof Swagatham Das)	Valedictory	

#### Speakers

Dr J Ravi Kumar Associate professor Dept of ECE, NITW

Prof Kasi Viswanathan, Dept of Maths, NITW

Prof RV Rao, NIT Surat

Prof Swagatham das ISI, Kolkata

Prof Vinod Kumar, EED NITW

Coordinator  
Dr. J. Ravi Kumar  
Dr Muralidhar