#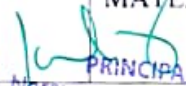# AICTE Sponsored Short Term Training Programme on "Hands on Training on MATLAB and Advanced Optimization Techniques" (Virtual Mode)-Phase II

Date	Name of the Resource Person (FN)	FN session	Lunch Break	Name of the Resource Person (AN)	AN session
18.01.2021	Dr. Jagdish Chand Bansal, Associate Professor, South Asian University, New Delhi	Differential Evolution: Theory, Example and MATLAB implementation		Dr. Sriparna Saha, Associate Professor, Indian Institute of Technology Patna	Multiobjective Optimization
19.01.2021	Dr. Prashant Kumar Jain, Associate Professor, Indian Institute of Information Technology, Jabalpur	2D Plotting Visualization Using MATLAB		Dr. G.A. Rathy, Associate Professor, NITTR, Chennai	Simulink
20.01.2021	Dr. Prashant Kumar Jain, Associate Professor, Indian Institute of Information Technology, Jabalpur	3D Plotting, Automating plots using functions		Dr. Babita Majhi, Guru Ghasidas Central University, Bilaspur, India	Nature Inspired Algorithms : Genetic Algorithm, Particle swarm optimization and Differential Evolution
21.01.2021	Dr. Prashant Kumar Jain, Associate Professor, Indian Institute of Information Technology, Jabalpur	MATLAB Applications demonstration		Dr. Prashant Kumar Jain, Associate Professor, Indian Institute of Information Technology, Jabalpur	Building Graphical User Interface (GUI) Basics
22.01.2021	Dr. S.K.Mishra Assistant Professor, Birla Institute of Technology, Mesra, Ranchi	Recent Optimization Techniques		Dr Rajesh Kumar, Professor, Malaviya National Institute of Technology, Jaipur	Design of Metaheuristics
23.01.2021	Dr S.Rajakumar, Associate Professor, Annamalai University, Chidambaram	Hands on Training on MATLAB and Statistical Tools		Dr P.Sivashankar, Associate Professor, NITTR, Chennai	Engineering Applications using MATLAB

Department of Humanities and Mathematics

2020-21

REPORT

Online STTP on "Hands on Training on MATLAB and Advanced Optimization Techniques"

Date of program: 18-01-2021 to 23-01-2021

Resource person: 1) Dr Jagdish Chand Bansal 2) Dr Prashant Kumar Jain 3) Dr Sriparna Saha 4) Dr G.A Rathy 5) Dr S.K.Mishra 6) Dr. S.Raja Kumar

About the Program:

Nowadays, engineering researchers, post graduates, academicians, and field engineers are very often use optimization techniques in order to achieve desirable outcomes, ideation, modeling, analysis, decision making and optimization certainly play important roles in process synthesis and analysis, transportation, logistics, production scheduling, telecommunications network, complex reactor networks, separation sequence synthesis, finding of an optimal trajectory for a robot arm, the optimal thickness of steel in pressure vessels, the optimal set of parameters for controllers, or optimal relations or fuzzy sets in fuzzy models, optimal network in energy integration, automated design of heat exchangers, mass exchanger networks,etc

The rapid advancement and growth in computing performances enable optimization techniques to become increasingly important and popular in almost all engineering applications for system identification, modelling, controls and data mining etc. This STTP provided a common platform to all faculty members of technical institutions to gain theoretical fundamentals coupled with practical knowledge of analytical and numerical methods to solve various engineering of real life applications.

PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for woman)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104

Keshav Kumar K.
Asst.Prof. H&M Dept.
GNITS, Hyd.