Program Schedule (FDP on "**Bioinspired Algorithms in Engineering Optimization"** during 16th December-20th December 2019)

Venue: CG Lab, CA Dept. Govt. College of Engg., Karad

Day	9:30 am to 10:30 am	10:30 am to 11:30 am	11:30 am to 12:15 pm	12:15 pm to 12:30 pm	12:30 pm to 1:30 pm	1:30 pm to 2:30 pm	2:30 pm to 3:30 pm	3:30 pm to 3:45 pm	3:45 pm to 4:45 pm	4:45 pm to 5:45 pm
16/12/2019	Break fast	Inauguration&Lecture1 Dr. Damodar Reddy**(NIT GOA)**	Lecture 2: Dr. Damodar Reddy	High Tea	Lecture 3: Dr. Damodar Reddy	Lunch Break	Lecture 4: Dr.Ganesh Kakandikar**(MIT Pune)**	High Tea	Lecture 5: Dr.Ganesh Kakandikar	Lecture 6: Dr. Suresh Mikkili **(NIT GOA)**
17/12/2019	Break fast	Lecture 7: Dr. Suresh Mikkili	Lecture 8: Dr. Suresh Mikkili	High Tea	Lecture 9: Dr. Suresh Mikkili	Lunch Break	Lecture 10: Dr. Damodar Reddy	High Tea	Lecture 11: Dr. Damodar Reddy	Lecture 12: Dr. Damodar Reddy
18/12/2019	Break fast	Lecture 13: Dr. Damodar Reddy Edla	Lecture 14: Dr. Damodar Reddy Edla	High Tea	Lecture 15: Dr. Suresh Mikkili	Lunch Break	Lecture16: Dr. Suresh Mikkili	High Tea	Lecture 17: Dr. Suresh Mikkili	Lecture 18: Dr.VenkatnareshBabu Kuppili**(NIT GOA**
19/12/2019	Break fast	Lecture 19: Dr. KVBabu	Lecture 20: Dr. KVBabu	High Tea	Lecture 21: Dr. KVBabu	Lunch Break	Lecture 22: Dr. KVBabu	High Tea	Lecture 23: Dr. KVBabu	Lecture 24: Dr. KVBabu
20/12/2019	Break fast	Lecture 25: Dr. KVBabu	Lecture 26: Dr. KVBabu	High Tea	Lecture 27: Dr. KVBabu	Lunch Break	Lecture 28: Prof. Rajani P.K. **(PCCOE Pune)**	High Tea	Lecture 29: Prof. Rajani P.K	Valedictory Function

Details of Lectures:

Lecture No.	Topic Name
1	Introduction to Bioinspired Computation
2	Introduction to Bioinspired Computation
3	Emerging Applications of Natural Computing
4	Grey Wolf Algorithm
5	Demonstration of Grey Wolf Algorithm
6	How to select a research topic?
7	How to write a Scientific/Technical/Research paper and Where to publish (SCI Journals and Conferences)
8	How to write a Scientific/Technical/Research paper and Where to publish (SCI Journals and Conferences)
9	How to write a Research Proposal and Funding opportunities.
10	Emerging Applications of Natural Computing
11	Emerging Applications of Natural Computing
12	Data Science using Bioinspired Computation
13	Data Science using Bioinspired Computation
14	Nature inspired algorithms , etc
15	Introduction to Artificial Intelligence, Neural Networks and Fuzzy logic System.
16	How to design a Fuzzy logic controller in MATLAB/SIMULINK
17	How to design a Fuzzy logic controller in MATLAB/SIMULINK
18	What is optimization? Methods for Search Optimization? Evolutionary Algorithm, Exploration and Exploitation in Bioinspired Algorithms
19	Evolutionary Computation, Genetic Algorithm
20	Particle Swarm Optimization.
21	Ant Colony Optimization.

22	Bat Optimization.
23	Artificial Bee Colony Optimization.
24	Feature Selection using Bio-inspired Algorithms.
25	Application on Medical Imaging.
26	MATLAB Simulations.
27	MATLAB Simulations.
28	Video Error Concealment using Particle Swarm Optimization
29	How to write and read a research paper?