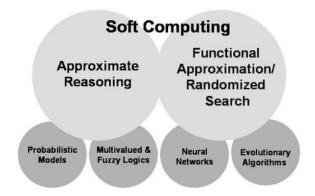
Soft Comuting (3 Credits)



Weeks	Sessions	Subjects
1	1^{st} , 2^{nd}	Introduction to Soft Computing
2	3^{rd} , 4^{th}	Search Strategies, Search Optimization
3	5 th , 6 th	Genetic Algorithm (GA)
4	7 th , 8 th	Artificial Neural Networks (ANN)
5	9 th , 10 th	Fuzzy Logic- An Introduction
6	11 th , 12 th	Fuzzy sets and fuzzy techniques
7	13 th , 14 th	Fuzzification and De-fuzzification methods
8	15 th , 16 th	Evolutionary Computing
9	17 th , 18 th	Applications of soft computing and statistical methods in water resources
		management
10	19 th , 20 th	Application of Artificial Neural Network in Environmental water quality
		assessment
11	21 th , 22 th	Soft computing tools in rainfall-runoff modeling
12	23 th , 24 th	Neuro-fuzzy modelling and forecasting in water resources
13	25 th , 26 th	Application of Soft Computing Methods in predicting evapotranspiration
14	27 th , 28 th	Student Project Presentation
15	29 th , 30 th	Student Project Presentation
16	31 th , 32 th	Student Project Presentation

References:

Soft computing in water resources engineering, artificial neural networks, fuzzy logic and genetic algorithms. G. Tayfur, wit press, 2012

Lecture notice. Introduction to soft computing, Dmitry Bystrov