

## RCF exam topics

- Artificial Intelligence and Machine Learning
- Foundations of Machine Learning
- Introduction to Artificial Neural Networks
- Hebbian Learning
- Principal Component Analysis Neural Networks
- Kohonen Map
- Single Layer Neural Network
- Multi-Layer Neural Network
- Error Back-Propagation
- Error Functions
- Optimization Algorithms
- Regularization for NNs
- Meta-Algorithms
- Convolutional Neural Networks
- Recurrent Neural Networks
- Autoencoders
- Representation learning
- Deep Generative Models
- Reinforcement Learning