

# Introduction to Mathematical Neuroscience

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1. [Single Neuron Models](#)
2. [Neural Networks \(Hopfield, Perceptron, Machine learning\)](#)
3. [Wilson Cowan Model](#)
4. [Neural fields](#)
5. [Oscillations and synchrony](#)
6. [Large Scale Simulations](#)
7. [Probabilistic Brain](#)
8. [Effect of Noise in Neural Systems](#)
9. [Anaesthesia & Plasticity](#)
10. [Presentations & Conclusions](#)

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