NOVEMBER 27 28 29 30 31 INTRODUCTION TO NEURAL! AND COGNITIVE MODELING TAUGHT BY · prof. bapi raju S. 12 COURSE TOPICS 11. introduction to neuroscience. · compartmental models of neuron · spiking neuron models 2. neural population codes · information representation · neural encoding and decoding · hierarchy and organization of sensory systems · spiking network models of sensory systems. · neuroplasticity and learning 2014

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3. introduction to hebbian,	competitive, and error-driven
learning rules.	
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- · neural network models of perception, attention, memory, language, and executive function.
- 12 TEXTBOOKS
- 16 computational explorations in cognitive science: Understanding the mind by simulating the brain; O'reilly. (2000)
- 2. the book of GENESIS: exploring realistic neural models with the GEneral NEural Simulation System; bower. (2003)
- modeling of neural systems; dayan. (2005)
- 4. fundamentale of computational neuroscience; trappenberg. (2009)
- 5. introduction to neural and cognitive modeling; Levine. (2018)
- 6. demystifying the brain: a computational approach; chakravarthy. (2019).