



Proficiency Course

# *Brain Behavior and Neuroscience of Learning and Memory*



1 May to 31 July  
Tuesday 8:30 to 10 P.M.  
Thursday 8:30 to 10:00 P.M.

## *OBJECTIVES*

This will provide crash course introduction to the field of learning and memory. Starting with historical perspective of how these functions were discovered originally, we will be studying the neurological basis of behavior. The rules governing learning, the different types of learning, neural basis of memory across various scales will be discussed.

## *SYLLABUS*

Different phases of Memory, Memory engrams, Case study of HM, Consolidation, classical conditioning, reinforcement learning, Cognitive vs Reflexive learning : Thorndike's findings, molecular basis of complex behavior, modern techniques and unanswered questions in the field of learning and memory.



*Course Co-ordinator*  
*Dr. Balaji Jayaprakash*  
**Centre for NeuroScience,  
Indian Institute of Science  
Bangalore**

Centre for Continuing Education  
Indian Institute of Science,  
Bengaluru, India  
Phone: +91 080 2293  
2055/2491/2247  
E-mail: [office.cce@iisc.ac.in](mailto:office.cce@iisc.ac.in)  
[www.cce.iisc.ac.in/cce-proficiency/](http://www.cce.iisc.ac.in/cce-proficiency/)