The 5th DST-SERC School will focus on cellular mechanisms that enable the mammalian brain to learn and remember, and how these are affected by neurological and psychiatric disorders. It aims to equip researchers with the basic theory and practical skills necessary to probe cognitive processes in animal models.

**Course contents**
The course will include focused lectures from experts in the field and hands-on experience on behavioural, structural and electrophysiological foundations of learning and memory and intense training in associated methodologies. Specifically, the School will cover techniques such as spatial learning, fear learning, motor learning, anxiety and depressive behaviour, immunohistochemistry, unbiased stereological brain morphometry and neurohistological techniques including Golgi-Cox staining. Electrophysiological techniques will include extracellular field potential recording in hippocampal slices, *in vivo* field potential recordings in freely moving animals, EEG and sleep evaluation.

**Who can apply**
Ph.D. students, young post-doctoral fellows and young faculty actively pursuing research in neuroscience and allied fields may apply. The number of participants will be restricted to 25.

**Support:** Local hospitality and travel (limited to 3AC railway fare) will be provided to participants.

**Deadline for Applications:** 25 December 2011 (late applications will not be entertained).

**To apply visit:** [www.nimhans.kar.nic.in/conf/events.htm](http://www.nimhans.kar.nic.in/conf/events.htm)

**Completed applications should be e-mailed to:** serc2012@gmail.com

**For further information please contact**

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