

**Introduction to Neurobiology – II (JNL203). 3:1:0 credits**

**Syllabus**

1. Glia – types, mechanisms of action and disorders
2. Neuronal membrane mechanisms and ion channel biophysics
3. Neurophysiology techniques, LTP, LTD
4. Neural cell behaviour, synaptic plasticity
5. Neurobiology of Sleep and rhythms
6. Altered autophagy in brain-related diseases
7. Tools and techniques of studying neural functions
8. Advanced neurodevelopment – hippocampus, adult neurogenesis, cerebellum and developmental disorders such as epilepsy
9. Neurodegeneration
10. Neurophysiology of ageing