**PG. Govt College for Girls, sector 42, Chandigarh**

**Teaching plan session (2016-17)**

Class: BSc. III year and M.Sc. Ist year Name of the teacher: Mandeep Kaur

Subject: Genetics and Endocrinology & Neural Physiology Period: IV and IV

Paper: I and IX Room no. 31 and MSc lab

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| **S. No.** | **Date from** | **Date upto** | **Topic to be covered** |
| Week 1 | Jan 11, 2017 | Jan 14, 2017 |  |
| Week 2 | Jan 16, 2017 | Jan 21, 2017 | Modification of mendelian ratio |
| Week 3 | Jan 23, 2017 | Jan 28, 2017 | M.Sc. I: Neuron as the basic unit of nerve physiology, Methyl accepting chemotaxis proteins and chemotactic signals of plasma membrane |
| Week 4 | Jan 30, 2017 | Feb 4, 2017 |  |
| Week 5 | Feb 6, 2017 | Feb 11, 2017 | Na and K permeability and action potential,  Structure of Na-K channels |
| Week 6 | Feb 13, 2017 | Feb 18, 2017 | Linkage, crossing over and recombination |
| Week 7 | Feb 20, 2017 | Feb 25, 2017 | Neurotransmitters: molecular mechanism of acetylcholine, catecholamine, serotonins |
| Week 8 | Feb 27, 2017 | Feb 28, 2017 | Linkage, sex linked characters, crossing over, frequency of crossing over |
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| Week 9 | March 9, 2017 | March 11, 2017 | Γ-amino butyric acid and glycine neurotransmitter, acetylcholine receptor channels and their inhibitors |
| Week 10 | March 13, 2017 | March 18, 2017 | Cytological basis of crossing over, synaptonemal complex, tetrad analysis |
| Week 11 | March 20, 2017 | March 25, 2017 | Retinal rod cells, excitations and molecular biology of visual cycle, |
| Week 12 | March 30, 2017 | April 1, 2017 | Mutations, physical and chemical mutagens, detection of mutation in Drosophila |
| Week 13 | April 3, 2017 | April 8, 2017 | color vision, Power of accommodation |
| Week 14 | April 10, 2017 | April 15, 2017 | Inbor errors of metabolism in man, somatic mutation and carcinogenesis. |
| Week 15 | April 17, 2017 | April 22, 2017 | myopia, hypermetropia, astigmatism, cataract and glucoma. |
| Week 16 | April 24, 2017 | April 29, 2017 | Population genetics, Genetic recombination in bacterial plasmid. |
| Week 17 | April 29, 2017 | My 6, 2017 | Mechanism of auditory and olfactory response and gustatory receptors |