**Post Graduate Govt. College for Girls, Sector-42, Chandigarh**

**Teaching Plan (Even Semester) Session (2019-2020)**

**Class: BSc micro 6 sem**   **Name of the Teacher: Akashdeep Sandhu**

**Subject: Microbiology Period:5**

**Paper: 601 & 602 Room No:219**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 09-01-2020 to 11-01-2020 | Introduction to important diseases caused by *Shigella, Salmonella.* The operative mechanisms, laboratory diagnosis, prevention and control of these diseases. |
| Week 2 | 13-01-2020 to 18-01-2020 | *Vibrio, Yersinia*. The operative mechanisms, laboratory diagnosis, prevention and control of these diseases. |
| Week 3 | 20-01-2020 to 25-01-2020 | *Hemophilus* and *Mycobacterium.* The operative mechanisms, laboratory diagnosis, prevention and control of these diseases. |
| Week 4 | 27-01-2020 to 01-02-2020 | Morphology, pathogenesis, life cycle, laboratory diagnosis, prevention and control of viral disease: Herpes |
| Week 5 | 03-02-2020 to 08-02-2020 | Morphology, pathogenesis, life cycle, laboratory diagnosis, prevention and control of viral disease: HIV |
| Week 6 | 10-02-2020 to 15-02-2020 | Morphology, pathogenesis, life cycle, laboratory diagnosis, prevention and control of viral disease: Influenza |
| Week 7 | 17-02-2020 to 22-02-2020 | Qualitative and Quantitative analysis of food components (proteins, lipids, carbohydrates) |
| Week 8 | 24-02-2020 to 29-02-2020 | Microbiological examination of food products including dairy products, food poisoning caused by bacteria and fungi. |
| Week 9 | 02-03-2020 to 05-03-2020 | Introduction to Human mycotic infections viz Blastomycosis, Opportunistic mycosis; Candidiasis and Aspergillosis. |
| Mid Semester Exams (06-03-2020 to 13-03-2020) | | |
| Week 11 | 14-03-2020, 16-03-2020 to 21-03-2020 | Life cycle, pathogenic mechanisms and control of parasitic infections: Ascariasis |
| Week 12 | 24-03-2020 to 28-03-2020 | Filariasis. |
| Week 13 | 30-03-2020 to 04-04-2020 | Hook worm. |
| Week 14 | 07-04-2020 to 11-04-2020 | Fermentation media, Characteristics of Ideal production media, Common substrates used in Ideal fermentations, |
| Week 15 | 15-04-2020 to 18-04-2020 | Batch and continuous fermentations |
| Week 16 | 20-04-2020 to 24-04-2020 | Production of organic acids viz. acetic acid, lactic acid, propionic acid, butyric acid and mixed acids. |
| Week 17 | 27-04-2020 to 02-05-2020 | Mass transfer in aerobic fermentations. |
| Week 18 | 04-05-2020 | Revision. |