Curriculum plan (Even Semester 2022-23)

Teacher Name: Dr. K. Vandana Rani

Paper name: LS DSE 4: Immunology

Class type: Theory

Paper shared with: Dr. Rani

Unit to be taken	Allocated lectures	Month wise schedule to be followed	Tests/ Assignments/ Revision/ Presentations etc
Unit 1: Overview of the Immune system i) Historical perspective, ii) early theories of immunology, clonal selection theory. Iii) Innate immunity: defensive barriers of innate immunity, cell types and molecules involved in innate immunity. iv) Adaptive immune system: attributes of acquired immunity, v) Humoral and cellular mediated immunity, vi) active and passive immunity, vii) primary and secondary cellular response,	10	03/01/2023 to 01/02/2023	
viii) cells and molecules involved in adaptive immunity. Unit 3: Antigen i) Antigens and immunogens, ii) antigenicity and immunogenicity, iii) Factors affecting immunogenicity, iv) Antigenic determinants (B and T cell epitopes), v) Concept of antigen recognition by B and T-cells, Vi) Adjuvants and haptens.	08	07/02/2023 to 01/03/2023	Assignments/ Presentation
Unit 4:Antibody i) Structure, different classes and function of antibodies, ii) Antigenic determinants on immunoglobulins, iii) Antigen-antibody interactions as tools for research and diagnosis (precipitation reaction, agglutination, immunofluorescence and ELISA), iv) Polyclonal sera, v) Hybridoma technology for monoclonal antibodies in therapeutics and diagnosis.	10	14/03/2023 to 12/04/2023	Test
Unit 7: Cytokines: Basic Properties and Function	4	18/04/2023 to 26/04/2023	Revision

Name of Teacher: Dr. K. Vandana Rani

Signature

Curriculum plan (Even Semester 2022-23)

Teacher Name: Dr. K. Vandana Rani

Paper name: LS DSE 4: Immunology

Class type: Practical (Group: G2)

Paper shared with: Dr. Rani

Unit to be taken	Allocated lectures	Month wise schedule to be followed	Tests/Assignments/ Revision/
		(G1)	Presentations etc
1. Demonstration of Lymphoid Organ	4	03.01.23/10.01.23	
2. Histological Study of Spleen, Thymus and Lymph Nodes through Slides/Photographs	4	17.01.23/24.01.23	
3. Preparation of stained blood film to study various types of blood Cells	4	21.01.23/25.01.23	Presentation
4. Ouchterlony's Double immuno diffusion method	4	31.01.23/07.02.23	
5. ABO blood group Determination	4	14.02.23/21.02.23	
7. Demonstration of ELISA	4	28.02.23/14.03.23	
8. Demonstration of Immunoelectrophoresis	4	21-0.23/28.03.23	
Repeat		04-04-23/11.04.23	Revision/ File Evaluation

Name of Teacher: Dr. K. Vandana Rani

Signature