

## Curriculum plan (Odd Semester 2023-24)

Teacher Name: Dr. K. Vandana Rani

Paper name: Zoology (H) CBCS : Immunology

Class type: Theory

Paper shared with: Dr. Rani, Dr. Nawaz

Unit to be taken	Allocated lectures	Month wise schedule to be followed	Tests/ Assignments/ Revision/ Presentations etc
<b>Unit 1: Overview of the Immune system</b> i) Historical perspective, ii) Early theories of immunology, clonal selection theory. iii) Cardinal Features of Vertebrate Immune System. iv) Haematopoiesis. v) Cells and Organs of Immune System	10	17/08/2023 to 07/09/2023	
<b>Unit2: Innate and Adaptive Immunity:</b> i) Anatomical Barriers, Inflammation, ii) Cells and Molecules involved in Innate Immunity, iii) Adaptive Immunity( cellular mediated immunity & Humoral iv) Passive Immunity, Active: Artificial and Natural Immunity. v) Immunologica Tolerance	10	11/09/2023to 09/10/23	Assignments/ Presentation
<b>Unit 3: Antigen</b> i) Antigenicity and Immunogenicity ii) Immunogenicity iii) Factors affecting immunogenicity iv) Adjuvants and haptens. v) B and T cell epitopes,	08	11/10/2023 to 30/10/2023	
<b>Unit 4: Antibody</b> i) Structure and functions of different classes of immunoglobulins ii) Antigenic determinants on immunoglobulins, iii) Antigen-antibody interactions (precipitation reaction, agglutination, immunofluorescence and ELISA), iv) Polyclonal sera, v) Hybridoma technology vi) Monoclonal antibodies in therapeutics and diagnosis.	10	02/11/2023 to 01/12/2023	Test
		4/12/23 onward	Revision

Name of Teacher : Dr. K. Vandana Rani

Signature

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**Teacher Name: Dr. K. Vandana Rani**

**Paper name: Zoology (H) CBCS: Immunology**

**Class type: Practical**

**Paper shared with: NA**

Unit to be taken	Allocated lectures	Month wise schedule to be followed (G1)	Tests/Assignment s/ Revision/ Presentations etc
1. Demonstration of Lymphoid Organ	4	022.08.23	
2. Histological Study of Spleen, Thymus and Lymph Nodes through Slides/ Photographs	4	29.08.23/ 05.09.23	
3. Preparation of stained blood film to study various types of blood Cells	4	12.09.23/19.09.23	Presentation
4. Ouchterlony's Double immuno diffusion method	4	26.09.23/3.10.23	
5. ABO blood group Determination	4	10.10.23 /17.10.23	
7. Demonstration of ELISA & Immunoelectrophoresis	4	24.10.23/31.10.23	
8 Cell viability and Counting	4	07.11.23/	
9.Haemolysis	4	14-11.23/ 21.11.23	
Repeat & MOC		28.11.23/05.12.23	Revision/ File Evaluation

**Name of Teacher : Dr. K. Vandana Rani**

**Signature**