

## IMMUNOLOGY AND GENETIC ENGINEERING

Semester	Subject Code	Category	Lecture	Theory	Practical		Credits
IV	21CBT41	Core Practical - II	0	0	6 hrs per week	90	3

### **COURSE OBJECTIVES**

- To familiarize students with the various immunological techniques includes antigen antibody reaction and to impart practical knowledge on different strategies of gene cloning.

### **LIST OF EXPERIMENTS**

1. Blood grouping and Rh typing
2. Widal test (Qualitative slide agglutination method)
3. Single radial immunodiffusion
4. Ouchterlony double diffusion method
5. Immunoelectrophoresis method.
6. Isolation of genomic DNA from *E.coli*.
7. Plasmid DNA isolation
8. Restriction digestion
9. Ligation
10. PCR

### **REFERENCE BOOKS**

1. <https://www.youtube.com/watch?v=-jKzLLHjRfs>
2. [https://www.youtube.com/watch?v=Bn-w6P\\_9TUA](https://www.youtube.com/watch?v=Bn-w6P_9TUA)
3. Hay FC and Westwood OMR(2003)Practical Immunology,4<sup>th</sup>Ed.,Blackwell Publishing.
4. <https://www.youtube.com/watch?v=uKeMiAZ8Zu4>
5. <https://www.youtube.com/watch?v=6mQGNDnOyH8>

### **Syllabus Designer:**

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