

**CURRENT COURSE STRUCTURE,
VIROLOGY (LS 504)**
(Prof. Supriya Chakraborty)

S. No	Topic	No. of lectures
1.	General perspectives: Origins of virology, viruses as a living system etc.	[2]
2.	Organization of viruses	[1]
3.	Classification of viruses	[1]
4.	Virus attachment and entry in to host cells	[2]
5.	Genome replication and mRNA production by RNA viruses	[2]
6.	Reverse transcription and integration by Retroviruses	[2]
7.	Transcription strategies of viruses	[2]
8.	DNA virus replication strategies	[2]
9.	Translational control of viral gene expression	[2]
10.	Viral pathogenesis and cell transformation by viruses	[2]
11.	Viral vaccines	[2]
12.	Antiviral chemotherapy	[2]
13.	Persistence of viruses	[1]
14.	Hepatitis viruses	[1]
15.	HIV	[1]
16.	Baculovirus	[1]
17.	Viral Evolution	[1]
18.	Emergence of new viruses and Current viral epidemics	[1]
19.	Viral vectors and gene therapy	[2]

Selected References:-

1. Principles of Virology – S J Flints, L W Enquist, R M Krug, V R Racaniello, A M Skalka. ASM Press.
2. Field Virology –
3. Hand outs