

Title: VIROLOGY [3-0-0-6]

Pre-requisites, if any: BB101 or equivalent exposure to Molecular Biology required

Content (*List of the topics/sub-topics to be covered in the lectures/practicals/assignments*):

Discovery and history of viruses; virus architecture and nomenclature; mechanisms of viral multiplication and assembly; evolution of viruses; virus transmission; virus epidemiology; laboratory diagnosis of viral diseases; viruses and human cancer; viral vaccines, antiviral therapy; oncolytic viruses; phage therapy; virus nanotechnology; viral vectors.

Texts / References

- Understanding Viruses. Teri Shors, Jones & Bartlett Publishers; 3rd edition, 2016.
- Principles of Virology. S. Jane Flint, L. W. Enquist, V. R. Racaniello, and A. M. Skalka ASM Press; 5rd edition, 2015.
- Principles of Molecular Virology. Alan J. Cann, Academic Press; 6th edition, 2015.
- Research articles/reviews, News, and Views