

B.Sc (Hons) Physics 2nd Semester

Course name: Vibrations and Waves

Course Code: PHY111B

1. Damped Oscillators

https://www.youtube.com/watch?v=X_1A00TTIFY&list=PLyqSpQzTE6M9X7oRXliYM8t0aaR_N0Csd&index=2

2. Lissajous figures

https://www.youtube.com/watch?v=xrejP8ZG9Hs&list=PLyqSpQzTE6M9X7oRXliYM8t0aaR_N0Csd&index=6

3. Quality factor of the damped oscillator

https://www.youtube.com/watch?v=GZZOD3cnPVk&list=PLyqSpQzTE6M9X7oRXliYM8t0aaR_N0Csd&index=7

4. Waves and its types, standing waves

https://www.youtube.com/watch?v=RdmJzrYqOfQ&list=PLyqSpQzTE6M9X7oRXliYM8t0aaR_N0Csd&index=26

https://www.youtube.com/watch?v=Rg9dc6xkJv4&list=PLyqSpQzTE6M9X7oRXliYM8t0aaR_N0Csd&index=27

5. Wave equation and its solution

https://www.youtube.com/watch?v=eZ74Ob1dHKM&list=PLyqSpQzTE6M9X7oRXliYM8t0aaR_N0Csd&index=29

https://www.youtube.com/watch?v=5cRRNDyUmpo&list=PLyqSpQzTE6M9X7oRXliYM8t0aaR_N0Csd&index=25

6. Impedance and velocities of the waves

https://www.youtube.com/watch?v=9rLC6EF6VM&list=PLyqSpQzTE6M9X7oRXliYM8t0aaR_N0Csd&index=28

7. Waves and Oscillations

Some general lessons

https://www.youtube.com/watch?v=KSPjrz6sF8o&list=PLk_xA5-3okLKBHxtfBCOJuOM4gwJ5dva5