

Bifurcation of Syllabus
Physics (312)

Total no. of Lessons – 30		
MODULE (No. & name)	TMA (40%)	Public Examination (60%)
	(No. of lessons-12)	(No. of lessons-18)
1. Force and Energy	L-1 (Units Dimensions and Vectors) L-2 (Motion in a Straight Line) L-4 (Motion in a Plane) L-5 (Gravitation) L-7 (Motion of a Rigid Body)	L-3 (Laws of Motion) L-6 (Work, Energy and Power)
2. Mechanics of Solids and Fluids	L-8 (Elastic Properties of Solids)	L-9 (Properties of Fluids)
3. Thermal Physics	L-10 (Kinetic Theory of Gases) L-12 (Heat Transfer and Solar Energy)	L-11 (Thermodynamics)
4. Oscillations and Waves	L-13 (Simple Harmonic Motion)	L-14 (Wave Phenomena)
5. Electricity and Magnetism	–	L-15 (Electric Charge and Electric Field) L-16 (Electric Potential and Capacitors) L-17 (Electric Current) L-18 (Magnetism and Magnetic Effect of Electric Current) L-19 (Electromagnetic Induction and Alternating Current)
6. Optics and Optical Instruments	L-20 (Reflection and Refraction of Light) L-23 (Optical Instruments)	L-21 (Dispersion and Scattering of Light) L-22 (Wave Phenomena and Light)
7. Atoms and Nuclei	–	L-24 (Structure of Atoms) L-25 (Dual Nature of Radiation and Matter) L-26 (Nuclei and Radioactivity) L-27 (Nuclear Fission and Fusion)
8. Semiconductor Devices and Communication	L-30 (Communication System)	L-28 (Semiconductors and Semiconducting Devices) L-29 (Applications of Semiconductor Devices)