SS3 PHYSICS

2ND TERM SCHEME OF WORK

1. Electromagnet- application/uses/Electromagnetic field – application D.c motors, moving coil galvanometer/ electromagnetic induction/ laws of electromagnetic induction, A.C/D.C
2. Generator/Transformers/power transmission-distribution/Eddy current
3. Alternating current/ Resistor, Inductor and capacitor in A.C circuit, resonance
4. Models of atoms- Thompson, Rutherford, Bohr/ Models and limitation/Electrons-cloud model structure of nucleus, protons, neutrons and isotope
5. Radioactivity-types, properties, uses, half-life, radioactive decay, decay constant
6. Artificial transformation/fission/fusion/chain reaction/radioactive harzard/binding energy
7. Quantum radiation, frankhert experiment, line spectral/discharge lamps
8. Photoelectric effect/work function/x-ray/types/characteristics/uses/hazards and safety precaution
9. Conduction of electricity in gases
10. Waves- particle paradox/de-boglies/uncertainity principles