Barkatullah University Institute of Technology, B.U., Bhopal

SEMESTER I

ENGINEERING PHYSICS
EL-101

Unit I

WAVE OPTICS

Theory of Bi-prism and Newton's Rings experiments, Michelson's Interferometer. Diffraction at single slit, Double slit and diffraction grating, resolving Power, Rayleigh criterion, Resolving power of telescope, microscope, grating and prism, concept of polarized light, Nicol prism. Idea about circularly & elliptically polarized light.

Unit-II

QUANTUM PHYSICS

Matter waves, group and particle velocity, uncertainty principle, Schrödinger wave equation and its application. Characteristic and back ground X-rays, Duan Hunt Limit, Moseley's law .Bragg's diffraction and bragg's spectrometer, comption effect. Stimulated and spontaneous emission, principles of laser action. Properties of solid state(Ruby & Nd YAG) and gas (He-Ne & Co_2) type lasers and their engineering applications. Fundamental ideas about fibre optics

Unit-III

NUCLEAR PHYSICS

Static properties of Nuclear shell model an liquid drop mode, particle accelerator. Cyclotron, Synchrocyclotron 7 Betatron, Nuclear reaction and Q values. Nuclear cross section Nuclear fission, Fission energy. Theory of fission process. Chain reaction. Critical size. Principles of Nuclear reactor and Nuclear fusion. Control fusion and fusion reactor.

Unit IV

SEMICONDUCTOR PHYSICS

Idea of energy bands in solids, distinction between metal insulator & semiconductor. Intrinsic and extrinsic semiconductor electron and hole motilities. Electrical conductivity and Hall effect P-n Junction. Junction Transistors. Transistor parameters. Working principles of thermostat, photo voltaic effect and solar cells. Fundamental ideas superconductivity Meissner effect, Isotope effect, Josephson effect.

Unit-V

DIELECTRIC MATERALS

Dielectric polarization, Gauss's Law. EP and D vectors .Different type of polarization. Conecpt of internal fields. Claudius Mosotti relationship. Langevin's theory of dipolar orientation Idea of polar and non-polar dielectrics, Ideal of lossy dielectric. Loss tangent and idea of complex permittivity.

Suggested text books:-

1. Concepts of modern physics by Arthur Beiser.
2. A text book of Engineering Physics by P.G. kshirsagar.
3. Engineering Physics theory & Experments by Shrivastava & Yadav.
4. Physics for Engineers by M.R. Srinivasan.
5. Optics by Ajoy Ghatak.

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