**Radiation hazard and safety BVORAD-504**

**UNIT 1**

Somatic and genetic effect of ionising radiation need for protection, principle of radiation protection

ALARA

**UNIT 2**

Radiation monitoring devices (film badge and TLD)

Radiation shielding devices available for protecting staff

Patient and public and how to use them

**UNIT 3**

(Methods ofRadiation Protection of patients, radiation workers and public).

Natural and background radiation (cosmic, terrestrial)

Principles of radiation protection, time - distance and shielding, shielding calculation and

Radiation survey

**UNIT 4**

Personnel dosimeters (TLD and film batches), occupational exposure, radiation protection of

Self and patient, ICRP, NRPB, NCRP and WHO guidelines for radiation protection,

Pregnancy and radiation protection.