MANGALORE UNIVERSITY

MSc Medical Physics

MPP 456: Medical Physics Practical-III (4 hr in a week)

Objective:

To familiarise and import the practical knowledge on basic concepts of radiation physics and radiation measuring instruments.

Outcomes:

Students will understand and will be able to design and conduct the experiments to test and measure various properties of radiation and parameters during radiation interaction with different materials.

1. Production and attenuation of bremsstrahlung.
2. Range of beta particles by Feather analysis.
3. Backscattering of beta particles and its applications.
4. Statistics of radioactive counting.
5. Study of voltage and current characteristics of an ionization chamber.
6. Calibration of survey instruments and pocket dosimeters.
7. Construction and calibration of a G.M. monitor.

Additional experiments may be added