



MANGALORE UNIVERSITY

MSc Medical Physics

MPP 408: Medical Physics Practical-II

(4 hr in a week)

Objective:

To impart the practical knowledge, construction and characterisation of electronic circuits used detecting and counting systems.

Outcomes:

Students will be able to construct and verify the functioning of various electronic circuits such as:

- Integrator and differentiator circuits using OPAMP and evaluate their performance
- Construct digital to analog converting circuits and evaluate.
- Constructing pulse shaping and pulse detecting circuits and evaluate their performance.
- Construct binary up and down counting circuits and check their performance.

List of experiments:

1. Integrator and differentiator circuit using OPAMP
2. Simple D/A converter – Ladder type
3. Coincidence and anticoincidence circuits
4. Pulse shaping circuits
5. To study the Electronic pulse detector.
6. To study the Binary up/down counter.
7. To study the diode laser characteristics

* Additional experiments may be included