

Medi-Caps University

Syllabus for Ph. D. Entrance Exam in Electronics Engineering

1. **Semiconductor Devices:** Fermi level, p & n type semiconductors, transistors.
2. **Digital Electronics:** Logic Gates, Flip Flops
3. **Network Analysis:** Transient analysis, Laplace and Fourier Transform
4. **Electromagnetic Waves:** Electromagnetic, Transmission line, Antennas and Waveguides.
5. **Control Engineering:** Transfer Function, Root Locus, Bode Plot, Nyquist Plot, Stability Criteria.