

Electronics Lab Experiments (C242)

1. Familiarization with multimeters, power supplies, function generators, Oscilloscopes; Identification of various components, e.g. resistors, diodes, capacitors etc.
2. Study of I-V characteristics of a linear and a nonlinear resistor
3. Study of normal and zener Diode characteristics
4. Study of passive filters and phase shifting RC series network (2 turns)
5. Study of Half wave rectifier with filters
6. Study of Full wave rectifier with filters
7. Application of zener diode as a voltage regulator in power supply
8. Study of transistor characteristics (CB, CE mode) (2 turns)
9. Study of a single stage common emitter transistor amplifier

References:

1. Electronics principles / A. Malvin, D.J. Bates
2. Electronic devices and circuit theory / R.L. Boylestad, L. Nashelsky