

Name : Electronic Circuits Fabrication and Testing
Field : Electronics
Eligibility : 10th
Duration : 300 hours

Theory Hours: 120

Theory Marks: 80

Practical Hours: 180

Practical Marks: 120

Contents

Introduction to Electronic components, Active and passive components, circuit simulation, testing and troubleshooting using ORCAD/MULTISIM Software. Digital multimeter and its various applications, Transformer construction and working Principle, Testing of electronic components with digital multimeter.

Introduction and applications of OP-Amp, Voltage Regulator and comparator. Various types of batteries used in UPS and Inverters, Applications of transistor – its uses, Digital Electronics, Gates and its Applications, overview of multiplexers, de-multiplexers, counter. Introduction to printed circuit boards, overview of designing process, concept of PCB Designing tools.