



# GOVT. DEGREE COLLEGE

AVANIGADDA-521121. KRISHNA DT. (A.P).

NAAC - B



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WINNERS ARE FORGED HERE

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**Dr. D. Uma Rani,**  
M.A., Ph.D.  
PRINCIPAL

## DEPARTMENT OF PHYSICS

### ADD ON COURSE

### Electronics Components - Practice and Testing Tools

#### SYLLABUS

#### Module 1 :- Electronic Components Testing Theory -- 12 hours

Component nature -- Component technology -- General methods for electronic components testing -- The Visual Inspection method -- Using the test equipment -- Right Test Equipments -- Digital multimeter -- Component tester -- LCR meter or tweezers -- Integrated circuits (ICs) tester.

#### Module 2 :- Resistor testing -- 04 hours

Method 1: Visual Inspection --- Method 2: Using a multimeter --- Method 3: Using a component tester.

#### Module 3 :- Capacitor testing -- 08 hours

Method 1: Visual inspection --- Method 2: By using a Multimeter (Off circuit capacitors) --- Method 3: By using an ESR meter (In circuit capacitors) --- Method 4: Using the M328 component tester.

#### Module 4:- Diode testing -- 06 hours

Method 1: Visual inspection --- Method 2: Using a multimeter --- Method 3: Using a component tester --- LED testing --- Transistor testing --- Method 1: Visual inspection --- Method 2: Using a transistor tester



  
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