

## TRADE ELECTRONICS

### SYALLABUS FOR TERM -2 [MARCH 2021]

Digital electronics and communication

Paper -1

- 1- Transmitting Media - Introduction of satellite system, optical Fiber system and RADAR system.

Explain Block diagram of satellite system and optical Fiber system. Advantages of optical Fiber.

- 2- Mobile and Wireless Communication -

Basics of Cordless Phone, Introduction to mobile Communication, Define G.S.M C.D.M.A, Dish Antenna, Impact of mobile phone on family health and society, Precautions while using mobile.

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Test and measuring Instruments

Paper -2

- 1- Transduced: Transducer, types of transducer - Passive transducer Active transducer.  
Working

principle of Resistance-Temperature Detector (R.T.D), Thermocouples, Thermistor and LVDT.  
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- 2- Power Supply: Diagram, working principle and application of SMPS. Inverter and UPS. Types  
of

UPS online UPS, OFF Line UPS,

- 3- Repair and Maintenance : Job Card, Service Card, History Sheet, Stock keeping, Test Bench.  
Field Servicing, Job Scheduling.

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Electronics devices and circuits

Paper -3

- 1- Wave Shaping Circuits : Different types of wave shapes, multivibrator, monostable multivibrator; Bi-stable multivibrator, Differentiating circuits, integrating circuits, Clipping circuits- Positive, clipper, Negative clipper; Biased clipper, combination clipper clamping clippers, clamping circuit, Positive Clamper, Negative Clamper.
- 2- Power Electronics: Field Effect Transistor (FET) Silicon Control Rectifier (SCR), Triac, Diac.
- 3- Consumer Electronics : Microphone, Loudspeaker, Microwave Oven, Photo State Machine, LCD, LED