

No. 566 /Dt. 29.2.2024.
(VT-I-03/2022)

From,

Dr. B.B.Mohanty,
Controller of Examinations.

To

The Principal,
All Govt.& Private ITI s/TTCs of Odisha .

Sub: Bill of Materials for AITT--Supplementary-March-2024 for CTS Semester System.

Ref: DGT Notification F. No DGT -18011/4/2023-O/O DIR(TT) (FTS No E-62494) Dated
16th January-2024.

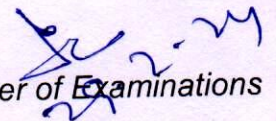
Sir/Madam,

In inviting reference to the DGT Notification on the subject cited above, I am to say that AITT--Supplementary-March-2024 for CTS Semester System for Engg. Drawing & Practical Subjects have been scheduled with effect from from 11th March-2024 to 16th March-2024.

In view of the above the Bill of Materials developed by the SCTE&VT, Odisha are enclosed herewith for procurement of Raw Materials & smooth conduct of Practical Examination.

Yours faithfully,

Encl: As above.


Controller of Examinations

BILL OF MATERIAL FOR SEMESTER SYSTEM AITT SUPPLEMENTARY PRACTICAL EXAMINATION
UNDER CTS & DST MODE TO BE HELD IN THE MONTH OF MARCH-2024

1st SEMESTER

ELECTRICIAN

1. Intermediate switch
2. 4/4 board
3. 40w Induction Choke
4. 2 way switch
5. Electrolytic capacitor
6. 100W lamp
7. Pendant holder
8. Resistors (variable values)
9. Connecting wires

FITTER

1. Fe310, 75 ISF 8 – 90
2. M/S Flat – 75x90x8mm

ELECTRONICS MECHANIC

1. Diode-in4007
2. PCB
3. SMPS
4. CRO

MECHANIC MOTOR VEHICLE

1. solder – 2 coils
2. Outside micro-meter – (50mm-100mm)
3. Feeler Gauge –(1mm-100mm)
4. Digital Multimeter – 2 nos

WIREMAN

1. Rheostat-20 Ohms 3.7 amp
2. DC variable supply 0-30V 2 amp
3. SP switch 6 amp 250 v
4. Resistor 10 Ω , 20 Ω , 50 Ω , 5 watt
5. B.C batten holder 6A, 250V
6. SPT switch 6A, 250 V
7. PVC copper wire 2.5Sqmm
8. Wooden Board (8x10)''
9. 3-pin socket 6A 250 V
10. Kit Kat fuse f/t 6A 250 V
11. Indicator 6A 250 V
12. Voltmeter MI 0-600 V

ELECTRICIAN

1. 8*10 TW board with plate
2. 5 pin socket 6 amp
3. Two way switch
4. inductor
5. fuse 6 amp
6. lamp holder
7. 1.5 sq mm copper wire
8. watt meter 1.5 kw

FITTER

1. Fe -360 / 08 X 40 X 105 MM³

DRAUGHTSMAN CIVIL

1. Drawing sheet
2. Cello tape
3. Eraser
4. Mini drafter
5. Pencil (H, HB, 2H)
6. Sharpener
7. Sand paper

ELECTRONICS MECHANIC

1. Bread board-1no
2. Transistor SL100-1 no
3. Diode-1 no
4. Capacitor 100 μ F, 25 μ F-1 no. each
5. Potentiometer 10KW-1 no
6. Resistors-120 Ω , 470 Ω , 1K Ω , 1.2K Ω and 5.6K Ω -1no each
7. Hook-up wires-as required
8. IC 7486 with base-1 no
9. IC 7400 with base-1 no
10. SPST Switch-3 nos.
11. Resistors 330 Ω -2 nos.
12. IC test board-1 no
13. Solder, flux-as required
14. Connecting wires-as required
15. Resistor 100K Ω , 10K Ω -1 no. each
16. OP AMP IC 741-2 nos.
17. Resin cored solder-as required

INFORMATION COMMUNICATION TECHNOLOGY SYSTEM MAINTENANCE

1. SMPS
2. RAM

3. Laptop
4. Laptop Batteries

MECHANIC MOTOR VEHICLE

1. Required a Diesel Vehicle
2. Required injectors tester & cleaning

MECHANIC MECHATRONICS

1. M.S Rod dia (54x115) mm

INSTRUMENT MECHANIC

1. Different type of Logic Gate ICs and Digital trainer kit
2. OP-AMP Trainer
3. Discrete Trainer
4. Trainer kit of Flip-Flop
5. Transistors (FET, MOSFET)
6. Digital Multimeter
7. Transistor tester
8. IC Tester
9. Microprocessor Trainer kit
10. Diodes
11. Regulated DC Power supply

PAINTER GENERAL

1. Drawing sheet
2. Steel pipe
3. Galvanized pipe
4. PVC pipe
5. Aluminum pipe
6. Black Ink

TOOL & DIA MAKER

1. MS Rod $\varnothing 20 \times 85$ mm.—01no.

3RD SEMESTER

ELECTRICIAN

1. Squirrel cage induction motor -415 volt,3HP
2. star delta starter-415 VOLT, 30 AMP
3. Ammeter-(0-25A),MI type
4. Voltmeter-(0-500V),MI type
5. Fluorescent Lamp with choke and starter – 2 SET
6. Capacitor start and induction run motor-230 volt,1 hp,50 HZ
7. Double capacitor motor-230 volt,1 hp,50 HZ
8. Ammeter-(0-10A),MI type
9. Voltmeter-(0-300V),MI type

ELECTRONICS MECHANIC

1. Microcontroller kit
2. Thermocouple
3. Leads
4. Resistors
5. Arduino

FITTER

1. Fe310, 65 ISF 8 – 88
2. M/S Flat – 65x88x8mm

DRAUGHTSMAN (MECHANICAL)

1. Drawing sheet
2. Drawing pencils H, HB, 2H (01 no.)
3. Eraser
4. Cello tape
5. Sand paper

INFORMATION COMMUNICATION TECHNOLOGY SYSTEM MAINTENANCE

1. Desktop PC
2. Phone gap software
3. Laptop
4. LCD projector

MACHINIST

1. Cast Iron Block-45*25*35-1pc

MECHANIC MOTOR VEHICLE

1. Required a Vehicle having ABS system

WIREMAN

1. Megger 0-600V
2. star-delta starter
3. Volt meter 0-600V
4. Ammeter 0-15A
5. Diode 1N4007
6. Transformer 6-0-6V
7. Flexible wire

PAINTER GENERAL

1. Paint
2. Exterior emulsion
3. G.I Sheet
4. Sandpaper

5. Red oxide
6. Paint
7. Thinner

INSTRUMENT MECHANIC

1. Rota meter
2. LVDT Trainer
3. Various Tachometers
4. Dead Weight Tester
5. Magnetic Flow meter
6. McLeod Gauge
7. Digital Tachometer
8. Deflecting & Rotating vane Flow meter
9. U-tube Manometer

MECHANIC MECHATRONICS

1. M.S Rod dia (26x105) mm

DRAUGHTSMAN CIVIL

1. Drawing sheet
2. Cello tape
3. Eraser
4. Mini drafter
5. Pencil (H, HB, 2H)
6. Sharpener
7. Sand paper

4TH SEMESTER

ELECTRICIAN

1. Food Mixer grinder- 240 volt,50 HZ,0.5 HP
2. Fluorescent Lamp with choke and starter
3. Electric heater- 230volt ,1000 watt,50hz
4. Geyser-230 volt, 1000 watt,50hz

DRAUGHTSMAN (MECHANICAL)

1. Drawing sheet
2. Drawing pencils H, HB, 2H (01 no.)
3. Eraser
4. Cello tape
5. Sand paper

ELECTRONICS MECHANIC

1. SMPS different make

2. IC – 7805
3. Capacitor
4. Resistor
5. Solar panel -- 12V, 4W
6. flexible wire
7. Mobile phone charger cable
8. Smart phone different make
9. Multimeter

FITTER

1. MS Flat 100mm X 45mm X 10mm : 2 Nos.

INFORMATION COMMUNICATION TECHNOLOGY SYSTEM MAINTENANCE

1. Desktop PC
2. Windows Server OS
3. Cat 5/e cables (as required)
4. RJ45 Connectors

LABORATORY ASSISTANT CHEMICAL PLANT

1. Calcium tablet, KMnO_4 solⁿ, conc. HCl, NH_4Cl solⁿ, conc. H_2SO_4 , N/10 Oxalic acid solⁿ, Ammonium oxalate solⁿ, liquor Ammonia, PH meter, alcohol, acid solⁿ, conical flask, burette, pipette, measuring flask, beaker, sugar solⁿ, burette, pipette, corbs hydrate solⁿ, conical flask, copper sulphate solⁿ methylene blue indicator.

MACHINIST

1. CAST IRON
2. BLOCK - (110X60X60) mm

MECHANIC MOTOR VEHICLE

1. Petrol Engine in running condition
2. Petrol

WIREMAN

1. Armored cable(C.P.I.L.C.D.T.A.) 3 ½ Core-1metre
2. Megger -1000volt -1 no.
3. Lead of the megger -1set
4. PVC wire-3/22 S.W.G.-5metre
5. Ampere meter –M.I.type-0 to 5 amp.-1no.
6. Voltmeter –M.I. type-0 to 600 volt-1 no.
7. Wattmeter -1 kw/300volt-1 no.
8. Single phase transformer-1KVA-220/110volt-1no.
9. White chart

PAINTER GENERAL

1. Enamel paint – 3 Litre.
2. Thinner - 4 Litres

3. Red Oxide Primer - 2Ltr
4. Metal Putty - ½ Kg
5. Sand Paper
7. Water proof - 180, 250, 320 Nos – 10 pcs
8. Dry sand paper – 60, 80, 120 Nos – 10 pcs
6. Sanding pad – 5 pcs
7. Varnish – ½ Litres.
8. Writing Brush – 8,7,10 Nos (Krishna iron)

MECHANIC MACHINE TOOL MAINTENANCE

1. MS Rod- 35 x 75 mm

MECHANIC (Refrigeration and Air-Conditioning)

1. R-134a Refrigerant
2. R-152a Refrigerant
3. Tube for gas charging
4. Gasket
5. Glue
6. Cutter