

**BILL OF MATERIAL REQUIRED FOR EACH TRAINEE FOR THE FOLLOWING
TRADES FOR THE ALL INDIA TRADE TEST OF CRAFTSMAN (SEMESTER PATTERN)
UNDER CRAFTSMAN TRAINING SCHEME TO HELD IN THE MONTH
OF JULY – 2017
SEMESTER – II (ENGG. & NON ENGG.)**

- 6/210. ARCHITECTURAL ASSISTANT**
i) Drawing sheet : As required
- 7/206. CARPENTER**
i) Plyboard 18mm thick to size 1500mm x 900mm : 1 No.
ii) Wooden pieces (Kail/Deodar/Shisham)
75mm x 25mm x 1500mm long : 2 Nos.
iii) Kail/Deodar/Shisham wood
75mm x 25mm x 900mm : 2 Nos.
iv) Sunmica to size 1500mm x 1000mm : 1 No.
v) Kail/Deodar/Shisham wood
75mm x 75mm 760mm long : 4 Nos.
vi) Glue : 200 gm.
vii) Nails (Assorted) : 100 gm.
viii) Moulding 18mm vide : 5 m long
ix) Wood polish : 100 gm.
- 8. DOMESTIC PAINTER ***
- 9/214. FOUNDRYMAN/FOUNDRYMAN TECHNICIAN**
i) Melting furnace of any capacity ready to operate.
ii) Ferrous scrap (Cast Iron) at least 1.5 times of the crucible capacity.
iii) All accessories & consumables including a wooden pattern and prepare the mould.
iv) The tools, tackles, etc. for melting, poring and casting into prepared mould.
v) Normal magnifying glass for, defect visual inspection of defects.
- 10. GOLD SMITH***
- 11. INDUSTRIAL PAINTER**
Raw material tools required for surface cleaning preparation & hot phosphating process
- 12/208. INTERIOR DECORATION & DESIGN ***
- 13. MARINE ENGINE FITTER**
i) A complete set of tools.
ii) Measuring instrument. : As per required
iii) A diesel engine in working condition.
iv) Raw material/consumables such as cotton waste, insulation tap, emery paper, etc.

- 14/211. MASON (BUILDING CONSTRUCTOR)**
- i) Bricks : As required
 - ii) Cements : As required
 - iii) Sand : As required
 - iv) Water : As required
- 15. MECHANIC REPAIR & MAINTENANCE OF HEAVY VEHICLES**
- i) A diesel/ petrol driven vehicle in working condition.
 - ii) Set of complete tools.
 - iii) Battery, battery charger in working condition.
 - iv) Raw materials/Consumables such as cotton waste, diesel, emery papers (fine and coarse), Hack saw blades, grease, spares for starter, spares for feed pump.
 - v) Any other item that may be required after moderation of the paper
- 16. MECHANIC REPAIR & MAINTENANCE OF LIGHT VEHICLES**
- i) Tools and Equipment : As per standard tool list
 - ii) Kerosene, cotton waste, old cloth etc. : As required
 - iii) Petrol : As per requirement
 - iv) Engine oil and oil filter if required
- 17/201. MECHANIC (DIESEL)**
- i) A vehicle in working condition
 - ii) A complete tool set
 - iii) Measuring instrument etc.
- 18/202. MECHANIC (TRACTOR)**
- i) A tractor in working condition
 - ii) Complete tool kit
 - iii) Measuring instrument and equipment etc.
 - iv) Grease
 - v) Cotton waste
- 19. MECHANIC COMMUNICATION EQUIPMENT MAINTENANCE**
- i) Components/devices of microwave communication system
 - ii) Components/devices of cable TV system as per question
 - iii) Tool kit
 - iv) Multimeter
 - v) PC
 - vi) Operating system software
 - vii) Various cable used in computer communication
 - viii) Cable tester
 - ix) Cat cable, crimping tool, RJ-45 connector as per need
 - x) Five PC, switch/hub as per question
 - xi) Internet modem, internet connection broadband/ISDN/lease line

- 20. MECHANIC LENS/PRISM GRINDER**
 i) Flexible cardboard, Covering sheet, Fevicol/Gum, Blackening material (Black ink/Lamp block), to make three cylindrical pipes.
 ii) Supporting blocks of wood to support the prisms, P1, P2.
 iii) Two 45°-45°-90° prisms.
- 21. PHYSIOTHERAPY TECHNICIAN**
 i) Walking stick
 ii) Traction bed
 iii) Pulleys for traction
 iv) Ultrasonic for OA knee
- 22. PLASTIC PROCESSING OPERATOR (2013)***
 i) Blow Moulding Machine
 ii) Test equipment of plastic
 iii) Rotational Moulding Machine
- 23/209. PLUMBER**
 i) Hand water pump
 ii) Repairing toolkit
 iii) Water closet
 iv) Gully trap
 v) Hydraulic pressure testing machine
- 24/205. PUMP OPERATOR-CUM-MECHANIC**
 i) Reciprocating pump : 1 No.
 ii) Coupled pump : 1 No.
- 25. RUBBER TECHNICIAN ***
- 26/213. SHEET METAL WORKER**
 Aluminium sheet 650mm x 325mm SWG
- 27. STONE MINING MACHINE OPERATOR ***
- 28. STONE PROCESSING MACHINE OPERATOR ***
- 29/212. WELDER**
 i) M.S Plat 150mm x 50mm x 10mm : 3 Nos.
 ii) Aluminium sheet 150mm x 50mm x 2mm : 2 Nos.
 iii) Tools, Equipment, Instruments, Consumables for TIG welding (aluminium) and CO2 welding (M.S.) Should be kept ready in good working condition
- 203. MECHANIC AUTO ELECTRICIAN AND ELECTRONICS**
 Single phase Induction motor, tachometer odometer, fuel gauge, Ammeter, Voltmeter wire/amp.

- 204. MECHANIC MOTOR CYCLE**
 i) Raw material required in overhauling of steering system of a scooter.
 ii) Raw material required to repair puncture in tubed tyre.
 iii) Common tools and equipments used in scooter.
- 207. SURVEYOR**
 i) Levelling staff
 ii) Ranging rods
 iii) Measuring Taps
 iv) Theodolite & Stand
- 241. ARCHITECTURAL DRAUGHTSMANSHIP (2014)***
 i) PC with Auto Cad printer
 ii) Drawing Board, Drawing Sheets
 iii) Mini Drafter, Drawing Instruments, Pencil, Eraser, Cello Tapes
- 264. COMPUTER HARDWARE & NETWORK MAINTENANCE**
 i) Crimping tool : 1 No.
- 266. MECHANIC AUTO BODY REPAIR**
 i) Air compressor
 ii) MS plate = 150mm x 75mm x 10mm : 2 Nos.
- 267. MECHANIC AUTO BODY PAINTING**
 i) Air Compressor : 1 No.
 ii) Spray gun : 1 No.
- 268. WELDER (GMAW & GTAW)**
(Common with 270)
- 269. WELDER (PIPE)**
(Common with 270)
- 270. WELDER (STRUCTURAL)**
 i) M.S Plate 150mm x 75mm x 10mm : 4 Nos.
 ii) M.S Plate 150mm x 60mm x 10mm : 2 Nos.
 iii) Stainless steel sheet 150mm x 50mm x 3.15mm : 2 Nos.
 Tools equipments, accessories and consumable for arc welding TIG welding and gas cutting as required
- 271. WELDER (WELDING & INSPECTION)**
(Common with 270)
- 272. WELDER (FABRICATION & FITTING)**
(Common with 270)

- 30. ATTENDANT OPERATOR (CHEMICAL PLANT)**
 i) Bourdon tube pressure gauge
 ii) Capsule type pressure gauge
 iii) Thermel conducting apparatus
 iv) Gate valve
 v) Globe valve
- 31/217. DRAUGHTSMAN (CIVIL)**
 i) PC with Auto Cad printer **OR**
 ii) Drawing Board, Drawing Sheets
 iii) Mini Drafter, Drawing Instruments, Pencil, Eraser, Cello Tapes
- 32/224. DRAUGHTSMAN (MECHANICAL)**
 i) MS Shaft : 2 Nos.
 ii) CI Flange : 1 No.
 iii) MS Bolt with nut : 4 Nos.
 iv) MS key : 2 Nos.
- 33/231. ELECTRICIAN**
 i) C.R.O with signal generator and power supply. : 1 No.
 ii) Bridge rectifier : 1 No.
 iii) Wattmeter 0-500W, 230V : 1 No.
 iv) Voltmeter 0-300V (M.I. Type) and 0-15V : 1 No.
 v) Ampere meter 0-5 and 0-20 amp. : 1 No of each range
 (M.I. Type)
 vi) P.V.C. wire 3/20 S.W.G. : 5 Meters
 vii) Flexible wire 40/.0076 S.W.G. : 2 Meters
 (PVC)
- 34/219. ELECTRONICS MECHANIC**
 i) SCR and UJT : As required
 ii) IGBT : As required
 iii) Set of Leds
 iv) Solder gun kit
 v) Flip – Flop IC set
 vi) Seven segment LED display panel
 vii) Multimeter
- 35/233. ELECTROPLATER**
 i) Rectifier
 ii) AC supply
 iii) DC voltage
 iv) Voltmeter
 v) Ammeter
- 36/227. FITTER**
 M.S Flat 125mm x 45mm x 10mm : 1 Piece

- 37. INSTRUMENT MECHANIC**
- i) D.C voltmeter (0-10V), (0-1V)
 - ii) D.C ammeter (0-100mA) & (0-100 μ A)
 - iii) Rheostat of 3600 ohms and 0.3A
 - iv) Transistor SL 100 (NPN transistor)
 - v) N-channel FET (BFW11) : 1 No.
 - vi) DC power supply (90-30V) : 2 Nos.
 - vii) Potential divider (3600W, 0.3A) : 2 Nos.
 - viii) Ammeter (0-25mA) : 1 No.
 - ix) Voltmeter (0-30V) : 2 Nos.
 - x) Resistors (3.3kW, 1.5kW) : 1 No.
 - xi) ICs of logic gates & Digital trainer kit
 - xii) Trainer kit of flip-flop
- 38. INSTRUMENT MECHANIC (CHEMICAL PLANT) (2015)**
- i) Benzene
 - ii) Nitric acid
 - iii) Beaker
 - iv) Pressure gauge vaccume gauge diaphragm type
 - v) Compound gauge
 - vi) Printer
 - vii) Driver software
 - viii) Computer
- 39/220. INFORMATION TECHNOLOGY & ELECTRONIC SYSTEM MAINTENANCE / INFORMATION & COMMUNICATION TECHNOLOGY SYSTEM MAINTENANCE**
- i) Faulty video card, working video card
 - ii) Faulty CD drive, Working CD drive
 - iii) New hard disk
- 40. LABORATORY ASSISTANT (CHEMICAL PLANT) (2015)**
- i) Sodium salphate
 - ii) Lead radical
 - iii) Pyrometer
 - iv) Flash
 - v) Burner
- 41/234. LIFT MECHANIC/LIFT ESCALATOR MECHANIC**
- i) 3-phase Induction Motor
 - ii) DOL starter
 - iii) DC shunt
 - iv) Stepper motor
 - v) Electronic controller
 - vi) Connecting wires
 - vii) Ammeter
 - viii) Voltmeter
 - ix) Multimeter
 - x) Required instruments, accessories & tools

- 42/222. MACHINIST**
i) M.S round of dia. 50mm and length 102mm : 1 piece
- 43/223. MACHINIST (GRINDER)**
i) Blunt hand reamer (Any size as available)
- 44. MAINTENANCE MECHANIC (CHEMICAL PLANT)**
i) Polarimeter
ii) Whetstone bridge
iii) Orifice meter
- 45. MARINE FITTER**
i) Mild steel rod – 22mm diameter & 105mm length & coke for heating
ii) Hammer
iii) Tongs
iv) Flatter
v) Anvil
vi) Forge
vii) Steel rule
viii) Mild steel round bar – 40mm diameter & 125mm length
ix) Centre lathe fitted with three jaw chuck
x) Cutting tool
xi) Centre drill
xii) Spanner
xiii) Steel rule
xiv) Vernier caliper
xv) Outside caliper
xvii) Micrometer
- 46. MECHANIC MINING MACHINERY ***
- 47/216. MECHANIC AGRICULTURE MACHINERY**
i) Tractor in working condition
ii) Break fluid : As required
iii) Diesel : As required
iv) Tools & Equipments : As required
- 48. MECHANIC COMPUTER HARDWARE**
i) Capacitors & Resistors : Assorted
ii) CRO
iii) Wires, Switches : Assorted
iv) 01 bulb
v) Voltmeter, Ammeter : 1 No.
vi) Fixable faulty SMPS : 1 No.
vii) SMPS tool kit

49/273. MECHANIC CONSUMER ELECTRONICS

- i) Experimental board
- ii) PNP transistor
- iii) Mill ammeter
- iv) Mutimeter
- v) LED
- vi) +5V DC power supply
- vii) Bread board
- viii) Connecting wires

50. MECHANIC-CUM-OPERATOR ELECTRONIC COMMUNICATION SYSTEM

- i) Electronics Devices (Diode, NPN transistor, PNP transistor, MOSFET, DIAC)
- ii) Diode IN14001
- iii) Resistor 1k Ω
- iv) Ammeter (0-100) μ A
- v) Voltmeter (0-1)V
- vi) Power supply (0-30V)
- vii) Connecting wires and bread board
- viii) OP-AMP characteristic trainer kit
- ix) CRO
- x) Connecting wire
- xi) Multimeter
- xii) Transformer 6-0-6V
- xiii) Resistance 470 Ω , 10% tolerance, 1/2 W
- xiv) Capacitor 470 μ F
- xv) Diode IN4001
- xvi) Breadboard
- xvii) Connecting wire and probe
- xviii) SMPS power supply unit
- xix) Voltmeter (0-250V)

51. MECHANIC INDUSTRIAL ELECTRONICS

- i) Resistance of different values : 6 Nos.
- ii) Capacitors of different values : 6 Nos.
- iii) DC power supply : 1 No.
- iv) Multimeter : 1 No.
- v) Voltage stabilizer : 1 No.
- vi) Wires, Tools, Soldering Iron : Assorted
- vii) DC power supply : 1 No.

52/225. MECHANIC MACHINE TOOL MAINTENANCE

- i) Mild Steel round bar
Size : 40mm diameter & 110mm length (One for each trainee)
- ii) Centre lathe
- iii) Tool Required –
 - a) Turning tool
 - b) Measuring instruments etc.

- 53. MECHANIC MECHATRONICS**
- i) 55mm ϕ rod 120mm long : 1 No.
 - ii) Bridge Rectifier : As required
 - iii) Fitter capacitor
 - iv) Battery
- 54. MECHANIC MEDICAL ELECTRONICS**
- i) Screw driver set
 - ii) Soldering iron
 - iii) Digital multimeter
 - iv) Connecting wires
 - v) SCR power bridge
 - vi) MOSFET
 - vii) Stabilizer
 - viii) Isolator transformer
 - ix) SMD components
 - x) OFC
 - xi) OP Amp
 - xii) LED
 - xiii) IC 8255
 - xiv) OTDR
- 55/215. MECHANIC MOTOR VEHICLE**
- i) Overhauled cylinder block along with assembled valves of an engine.
 - ii) Cylinder block with all parts assembled.
 - iii) Inlet and exhaust manifolds of same engine.
 - iv) Cylinder head gasket, Exhaust and inlet manifold gaskets.
 - v) Gasket sealing compound.
 - vi) Rocker arm assembly.
 - vii) Tool box with required general tools.
 - viii) Torque wrench, Socket sets with extension rod.
 - ix) Feeler gauge.
- 56/218. MECHANIC REFRIGERATION AND AIR-CONDITIONING**
- i) Bottle cooler : 1 No.
 - ii) Window AC : 1 No.
- 57. MECHANIC RADIO AND TELEVISION**
- i) Transistor
 - ii) Resistors & capacitors
 - iii) Single core connecting wires
 - iv) CRO
 - v) Zener diode (s)
 - vi) Resistors
 - vii) AC supply
 - viii) Connecting wires (single core)

- ix) Bread board
- x) Voltage stabilizer
- xi) Multimeter
- xii) SMPS circuit
- xiii) Loudspeaker
- xiv) Oscillator unit

58/226.

OPERATOR ADVANCE MACHINE TOOL

- i) MS rod : diameter 45mm x 200mm : One for each student
- ii) Cutting tools & measuring instruments
- iii) Centre lathe

59.

PAINTER (GENERAL)

- i) Wooden plywood of suitable size
- ii) Emery paper of different grit size : As required
- iii) Chalk/Putty
- iv) Varnish
- v) Thinner
- vi) Sample corroded metal pieces : As available
- vii) Wire brush : 1 No.
- viii) Pickling bath : As available
- ix) Rinse bath : As available
- x) Paint system : As available
- xi) Brush
- xii) Personnel protective equipment : As available

60.

RADIOLOGY TECHNICIAN *

- i) Dark room equipments including processing tanks, cassettes, safelight, film racks and hangers.
- ii) Automatic processors including developer, fixer, washing, and dryer.
- iii) Loading bench
- iv) Materials and chemicals required in lab

61/235.

SPINNING TECHNICIAN

- i) Blow room machine intact with all parts
- ii) Carding machine in running condition
- iii) Respective material on card machine
- iv) All tools and gauges
- v) Scale/Measuring tape

62.

SURVEYOR

- i) Plane table with tripod stand
- ii) Alidade
- iii) U-frame
- iv) Plumb – bob
- v) Spirit level
- vi) Trough compass

- 63/236. TEXTILE MECHATRONICS**
 i) Carding machine
 ii) Draw frame machine
 iii) Leaf gauge
 iv) Set of spanners
- 64/237. TEXTILE WET PROCESSING TECHNICIAN**
 i) Water sample suitable for –
 a) Washing b) Neutralization after washing
 ii) PH meter
 iii) Fabric sample (grey cotton)
 iv) Water
 v) Bleaching chemicals for peroxide bleaching
 vi) Instrument/grey scale for whiteness index testing
 vii) Cotton, wool etc. fibres for identification test
 viii) Microscope
 ix) Answer sheet
- 65/228. TOOL & DIE MAKER (DIES & MOULDS)**
 Mild Steel size – 45mm x 55mm x 20mm : 2 Nos.
- 66/229. TOOL & DIE MAKER (PRESS TOOLS, JIGS & FIXTURES)**
 Mild Steel Size – 45mm x 45mm x 55mm : 2 Nos.
- 67/221. TURNER**
 MS Rod = ϕ 30mm x 150mm : 1 No.
- 68. VESSEL NAVIGATOR**
 i) Trawl knot
 ii) Netting cutter
- 69/238. WEAVING TECHNICIAN**
 i) 100 gms. of different fibres with dissolving agents
 ii) 1 kg yarn of different counts
 iii) Beam warping machine
 iv) Wrap reel
 v) Twist tester
 vi) Strength tester
 vii) Weighing balance
- 70/232. WIREMAN**
 Voltmeter, Ammeter, Electric heater 1 k.w. wire, lamp, board, Two way switch board, wire neon sign tubes
- 230. METAL CUTTING ATTENDANT (FOR VISUALLY IMPAIRED PERSON) ***

- 265. TECHNICIAN POWER ELECTRONICS SYSTEMS**
 i) Full adder kit
 ii) JFET Kit
 iii) MOSFET
 iv) Logic gate set
 v) Multimeter
 vi) CRO
 vii) 7475 IC
 viii) Required Resistor, Capacitor, Diodes, Transistors
 ix) Required tools, Accessories
 x) OP AMP IC
- 274. REFRACTORY TECHNICIAN**
 i) Raw material for fire clay bricks : 2 No.
 ii) Die to form fire clay brick by hand moulding
- 275. MECHANIC AIR-CONDITIONING PLANT**
 i) Condenser and evaporator coils : 1 No. each
 ii) Tools and equipment for above operation
- 276. CIVIL ENGINEERING ASSISTANT**
 I) Wooden pieces:
 i) 650mm x 120mm x 80mm : 2 Nos.
 ii) 300mm x 80mm x 60mm : 2 Nos.
 iii) Nails 1" : As required
 II) PVC wire 3/20 SWG : 1 Mtr.
 i) Sand paper 600 No. : 1 No.
 ii) Solder wire 60/40 : As required
 iii) Soldering flux : As required
- 277. INFORMATION TECHNOLOGY**
 i) PC
 ii) Software's – MS – office, Adobe PageMaker, Adobe Photoshop
- 93/251. BAKER & CONFECTIONER**
- 94. CANE WILLOW & BAMBOO WORKER***
 i) Canes for making mat.
 ii) Bamboos for making top of the box
 iii) Finishing material like varnish.
 iv) Boring tools
- 95. CATERING & HOSPITALITY ASSISTANT ***

96/242. **COMPUTER OPERATOR AND PROGRAMMING ASSISTANT**
JAVASCRIPT, VBA editor, Tally software

97/253. **CRAFTSMAN FOOD PRODUCTION (GENERAL) FOOD PRODUCTION (GENERAL)**

- i) Macaroni
 - ii) Tomato
 - iii) Bread
 - iv) Egg
 - v) Butter
 - vi) Milk
 - vii) Chilies
 - viii) Brinjal
 - ix) Capsicum
 - x) Beans
 - xi) Potato
 - xii) Carrot
 - xiii) Mayonnaise
 - xiv) Turnips
 - xv) Green Peas
 - xvi) Flour
 - xvii) Mixed fruit jam
 - xviii) Sugar
 - xix) Olive oil
 - xx) Cheese
 - xxi) Onion
 - xxii) Lettuce leaves
 - xxiii) Garlic
 - xxiv) Herbs, Spices & Condiments
 - xxv) Seasoning
- As required

98. **CRAFTSMAN FOOD PRODUCTION (VEGETARIAN)**

- i) Equipment (Solar cooker, Microwave, Gas stove, Mixer grinder etc.)
- ii) Utensils for cooking and serving
- iii) Basmati rice
- iv) Milk and Milk products
- v) Pulses
- vi) Vegetables
- vii) Spices, nuts & essences
- viii) Oil and Ghee
- ix) Gram flour

99/247. **CUTTING & SEWING / SEWING TECHNOLOGY**

- i) Light weight denim fabric : 1.5 mtr.
- ii) Matching thread : 1 reel
- iii) Piping/lace : 2.5 mtr.
- iv) Sewing kit : 1 No. each student
- v) Cotton fabric : ½ mtr. For samples

Contd...14/-

- 100. DAIRYING**
 i) Caustic stick (KOH) and holder
 ii) Scissors
 iii) Vaseline
 iv) Cotton wool
 v) Dusting powder (ZNO)
 vi) Tray
 vii) Suitable bedding
 viii) Surgical spirit
 ix) Centrifugal pump
 x) Seat for changing
 xi) Standard set of tools
 xii) Rubber mats/gloves etc.
 xiii) Burdizzo's pincers
 xiv) Rubber bands
 xv) Emsculatome
- 101/243. DESKTOP PUBLISHING OPERATOR**
 Coral draw software, Adobe Photoshop
- 102. DIGITAL PHOTOGRAPHER ***
- 103/248. DRESS MAKING**
 i) Printed/Plain cotton fabric : 3 mtr.
 ii) Matching thread : 1 reel
 iii) Piping/lace : 3 mtr.
 iv) Sewing kit : 1 No. each student
 v) A4 size sheet : 1 No.
 vi) Poster colors/pencil colors : 1 set of 12 shades
 vii) Pencil box (HB pencil, ruller-12", Eraser, Sharpener etc. : 1 Box each student
 viii) Brown paper (full size) : 3-4 no. sheets
 ix) Pattern making kit : 1 No.
- 104/249 EMBROIDERY & NEEDLE WORKS / SURFACE ORNAMENTATION TECHNIQUES**
 i) Fabric terricot 30cm. light shade
 ii) Machine embroidery thread in 3 colors
 iii) Cord white : 1 mtr.
 iv) Embroidery frame : 1 No.
 v) Embroidery machine, Embroidery kit and drawing kit
- 105/246. FASHION TECHNOLOGY / FASHION DESIGN & TECHNOLOGY**
 i) Plain fabric : 25cm
 ii) Plastic / Wooden buttons : 2 Nos.
 iii) Embroidery thread : 2 different colours
 (Anchor)
 iv) A4 (white) Cartridge sheet : 1 No.
 v) Pencil box (Pencil, Eraser, Sharpener, Plastic ruler) : 1 box
 vi) Pester colour (black) : 1 No.

- 106. FINANCE EXECUTIVE***
- 107. FIRE TECHNOLOGY & INDUSTRIAL SAFETY MANAGEMENT ***
- 108. FLORICULTURE AND LANDSCAPING**
- i) Apiary instruments : As per need
 - ii) Fungicides and fertilizer : As per need
 - iii) Apiary tools : As per need
 - iv) Planting media and containers : As per need
- 109. FOOTWEAR MAKER**
- i) Costing sheet
 - ii) Upper material
 - iii) Material for skiving and folding
 - iv) Stitching tools
 - v) Thread
 - vi) Insole board
 - vii) Shank
 - viii) Shank board
 - ix) Neoprene adhesive
 - x) Lasting tools
 - xi) Finishing chemical
 - xii) Paper
 - xiii) Pan
 - xiv) Rubber
 - xv) Eraser
 - xvi) Sharpener
- 110/239. HAIR AND SKIN CARE / BASIC COSMETOLOGY**
- i) Massage oil
 - ii) Liquid shampoo
 - iii) Hair colour
 - iv) Hair brush
 - v) Vaseline
 - vi) Scrub
 - vii) Emollient cream
 - viii) Skin toner
 - ix) Primer
 - x) Base
 - xi) Blusher
 - xii) Loose powder
 - xiii) Eye shadow
 - xiv) Eye liner
 - xv) Eye brow pencil
 - xvi) Make up fixer
 - xvii) Switch
 - xviii) Braid
 - xix) Bob pins

- xx) Jura pins
- xxi) Mascara
- xxii) Glitters
- xxiii) Blonder
- xxiv) Lightener
- xxv) H₂O₂
- xxvi) Cold wax

111. HEALTH SAFETY & ENVIRONMENT *

112. HEALTH SANITARY INSPECTOR

- i) First aid kit
- ii) LCD projector
- iii) Computer
- iv) Milk
- v) Iodine solution

113. HORTICULTURE

- i) Vegetable seeds
- ii) Ornamental plants
- iii) Garden tools
- iv) Lemons
- v) Oranges
- vi) Preservatives
- vii) Bottles for packaging

114. HOSPITAL HOUSE KEEPING

- i) Paper, Pencil, Computer, Flowers for flower
- ii) Arrangement and equipment may please the provided.

115. HUMAN RESOURCE EXECUTIVE

- i) PC with printer
- ii) Software : MS Word, MS Excel, Power – Point,
- iii) A4 sheets
- iv) LCD projector

116. LEATHER GOODS MAKER

- i) Ornament
- ii) Drawing paper
- iii) Designing tools
- iv) Cutting tools
- v) Stitching tools
- vi) Pen
- vii) Adhesive
- viii) Adhesive pot
- ix) Brush
- x) Grinders
- xi) Textile

- 117. LITHO OFFSET MACHINE MINDER**
i) Rags/Cotton waste
ii) Oil can with oil
iii) Two colour plates for proofing
iv) Plates for web offset for proofing
v) Reel & sheet papers for proofing
vi) Printing Ink multi colours
- 118. MARKETING EXECUTIVE***
- 119/244. MULTIMEDIA ANIMATION & SPECIAL EFFECTS**
i) Front page
ii) PC
iii) Adobe studio suite
iv) Flash & Advance scrupling
v) Photoshop
vi) Illustrator
vii) Maya
viii) 3D Max
- 120. OFFICE ASSISTANT CUM COMPUTER OPERATOR ***
- 121. PHOTOGRAPHER**
- 122. PLATE MAKER CUM IMPOSITOR**
i) Four colour separated format
ii) Book work negatives of continuous 16 pages (A4)
iii) Masking sheets
iv) Wipe on coating solution (A&B)
v) Wipe on developer
vi) Finisher
vii) PS plates
viii) PS developer
- 123/245. PRESERVATION OF FRUITS AND VEGETABLE ***
- 124. PROCESS CAMERAMAN**
i) Lith film
ii) Contact screen
iii) Developer
iv) Fixer
v) Negative
vi) Camera
vii) Contact frame
viii) Scale
ix) Black & White photograph

- 125/258. **SECRETARIAL PRACTICE/STENOGRAPHY/ & SECRETARIAL ASSISTANT ***
- 127/260. **STENOGRAPHY (HINDI) ***
- 128/252. **STEWARD/ FOOD & BEVERAGES SERVICE ASSISTANT**
- 129/262. **TRAVEL AND TOUR ASSISTANT ***
- 130/263. **WEAVING OF SILK AND WOOLEN FABRICS**
i) A 4" x 4" fabric sample of different weave and sett.
ii) Its anticipated that each lab/workshop is equipped with machines, tools and equipment as described with syllabi.
131. **WEAVING OF WOOLEN FABRICS**
i) Graph paper and sketch sheet
ii) Jacquard loom
iii) Woolen fabric
iv) Acid and alkali required for milling process
132. **BUSINESS MANAGEMENT ***
- 91/240 **SPA THERAPY**
i) Muslin cloth
ii) Erand patra
iii) Garlic
iv) Lemon
v) Salt
vi) Soya
vii) Panchakarma table
viii) Dummy/ person
ix) Chart for reflexology
x) Shirodhara patra
xi) Herbal oil
xii) Cotton
250. **COMPUTER AIDED EMBROIDERY & DESIGNING ***

254. **FRONT OFFICE ASSISTANT ***
255. **HOUSEKEEPER**
 i) Flowers for centre table : As required
 ii) Fir extinguisher : 1 No.
 iii) Vacumm cleaner : 1 No.
- 88/256 **OLD AGE CARE**
 Chart paper, Sketch pen set
257. **PRE/PREPARATORY SCHOOL MANAGEMENT ASSISTANT ***
 i) Teaching aids & material : As required
259. **STENOGRAPHY & SECRETARIAL ASSISTANT (ENGLISH) ***
- 92/261. **ASSISTANT TOURIST GUIDE ***
278. **MILK AND MILK PRODUCTS**
 i) 4 kg milk for making paneer
 ii) LPG gas
 iii) Muslin cloth
279. **FOOD BEVERAGES**
 Vodka, Gin, Dark rum bottles
280. **AGRO PROCESSING***
281. **DATA BASE SYSTEM ASSISTANT***
282. **SOFTWARE TESTING ASSISTANT***
 JAVA/PHP software
283. **BAMBOO WORKS**
 i) Bamboo processing machine : 1 No.
 ii) Computer with Auto CAD : 1 No.
 iii) Any suitable mould : 1 No.
901. **ARCHITECTURAL DRAUGHTSMANSHIP (2014)***
 i) PC with Auto Cad printer - OR -
 ii) Drawing Board, Drawing Sheets
 iii) Mini Drafter, Drawing Instruments, Pencil, Eraser, Cello Tapes
133. **DENTAL LABORATORY EQUIPMENT TECHNICIAN**
 i) Articulator
 ii) POP
 iii) Cast with wax bite
 iv) Teeth set
 v) Cast
 vi) Base plate
 vii) Base plate wax

- viii) Articulator
- ix) Any denture upper or lower
- x) Wax flask
- xi) Cast maxillary cast base former
- xii) Cast of same denture
- xiii) Denture broken from middle 1

134.

ARCHITECTURAL DRAUGHTSMANSHIP *

- i) PC with Auto Cad printer **OR**
- ii) Drawing Board, Drawing Sheets
- iii) Mini Drafter, Drawing Instruments, Pencil, Eraser, Cello Tapes

Note: *Tools & Equipments as per syllabus may be kept ready in working condition.
