###### MINIMUM REQUIREMENTS

###### FOR

###### The Affiliation

###### Of

###### Diploma in Ayurveda Pharmacy



###### Council for Technical Education and Vocational Training

###### Polytechnic Division

###### Sanothimi, Bhaktapur

###### NEPAL 2022

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|  | * Chemistry / Pharmaceutical Science Lab
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|  | * Biology Lab M;+:yfn] Ps eGbf a9L sfo{qmd ;+rfng ug]{ ePdf Zoology / Botany Lab 5'§f5'§} x'g'kg]{5 .
 |
|  | * Anatomy and physiology demonstration room/ Maulikasiddhanta and Shareera
 |
|  | * Computer lab
 |
|  | * Dravyaguna / Pharmaacognosy Lab
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|  | * Rasashastra and Bhaishajyakalpana/Toxicology/Pharma. Technology lab
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|  | * Biochemistry and Pathology Lab
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**& अध्ययन-अध्यापनका लागि आवश्यक औजार-उपकरण तथा शैक्षिक
 साम्रगीहरु (Required teaching learning tools, instrument
 and materials)**

 **7.1 Physics Lab**

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| --- | --- | --- |
| **S.No** | **Item** | **Quantity**  |
|  | Chair and table for teacher  | 1 set |
|  | Marker board  | 1 set |
|  | Working tables | Sufficient to perform practicum for at least 10 students |
|  | Rack for Instrument | As per need |
|  | Vernier caliper  | 10 pcs |
|  | Hollo & solid cylinders each  | 10 pcs |
|  | Screw gauge & steel ball each  | 10 pcs |
|  | Glass rods  | As per need |
|  | Plane mirror  | 10 pcs |
|  | Concave Lens | 10 pcs |
|  | Convex Lens | 10 pcs |
|  | Concave Mirror | 10 pcs |
|  | Convex Mirror | 10 pcs |
|  | Thermometer (laboratory)  | 10 pcs |
|  | Bar magnet  | 10 pcs |
|  | Magnetic needle  | 10 pcs |
|  | Meter bridge  | 10 pcs |
|  | Rheostat  | 10 pcs |
|  | Nicholson's hydrometer  | 10 pcs |
|  | Hypsometer  | 10 pcs |
|  | Volt meter  | 10 pcs |
|  | Hydrostatic balance  | 10 pcs |
|  | Ammeter  | 5 pcs |
|  | Resistance box  | 10 pcs |
|  | Optical bench  | 10 pcs |
|  | Drawing board (Small)  | 10 pcs |
|  | Slotted weight  | 10 pcs |
|  | Specific gravity bottle  | 10 pcs |
|  | Simple pendulum  | 10 pcs |
|  | Prism  | 5 pcs |
|  | Calorie meter  | 10 pcs |
|  | Sphero meter  | 5 pcs |
|  | Wall Stand Barometer | 5pcs |
|  | Operational Manual of equipment  | 1 pc |

**7.2 Chemistry Lab**

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| --- | --- | --- |
| **S.No** | **Item** | **Quantity**  |
|  | Chair and table for teacher  | 1 set |
|  | Marker board  | 1 set |
|  | Working tables | Sufficient to perform practicum for at least 10 Students |
|  | Rack for Glass Wares and chemicals  | As per need |
|  | Mendeleev Periodic Table (Wall chart size) | 1 pcs |
|  | Bunsen burner | 10 pcs |
|  | Tripod stand | 10 pcs |
|  | Gas valve | 10 pcs |
|  | Stand & clamp | 10 pcs |
|  | Sprit lamp | 10 pcs |
|  | Filtration stands | 10 pcs |
|  | Chemical weight box | 10 pcs |
|  | Glass tube & glass rods | As per need |
|  | Round bottom flasks of different volumes | 10 pcs each |
|  | Eudiometric tubes | 10 pcs |
|  | Plastic washing bottles | 10 pcs |
|  | Distillation set | 1 set |
|  | Beaker (50, 100, 150, 200, 500, 1000ml) each | 10 pcs |
|  | Measuring Cylinder (100, 500 ,1000 ml) each | 5 pcs |
|  | Volumetric Flask of different volumes (100,200 ml) | 10 pcs each |
|  | Hard glass test tube | 10 pcs |
|  | A grade pipettes of different volumes (1 , 5. 10, 20, & 50 ml) | 20 pcs |
|  | Water trough  | 10 pcs |
|  | Fire extinguisher | 1 pc |
|  | Consumable chemicals and materials- Silver nitrate, Glacial acetic acid, Iodine crystals, Salicylic acid, Mercuric chloride, Calcium chloride (fused), Potassium dichromate, Oxalic acid, ammonia solution (liquid Ammonia), Feting solution A & B phenolphthalein, Methyl orange powder, Potassium oxide , Starch soluble, Barium chloride, Copper sulphate , Sodium chloride, Sodium hydroxide (pellets), Sodium bromide, Sodium sulphite, Sodium sulphate, Ammonium chloride, Barium carbonate, Urea, Thiourea, Chlorobenzene, Chloroform, Ethanol, acetone, Sodium oxalate, Ferrous sulphate, Ferric chloride, Sodium nitroprusside,Camphor, Zinc granulated, Methanol, Potassium hydrogen sulphate, Chlorine water, Calcium oxide, Carbon disulfide, Lead acetate, Fusion tube, Sodium acetate,trihydrate Sodium formate, Potassium permanganate, Sulphuric acid, Hydrochloric acid, nitric acid, Distilled Water, Filter Paper Dropper. |
|  | Exhaust fan and Chemical storage facility (Flammable, Inflammable, Toxic and Hazardous |
|  | Emergency preparedness manual |
|  | Laboratory waste management system |
|  | First aid box |
|  | Reagent bottle |
|  | Gloves (as required) |
|  | Masks (as required) |
|  | Reagent bottles (as required) |

**7.3 Biology Lab**

**7.3.1 Zoology Lab**

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| **S.N** | **Item** | **Quantity** |
|  | Chair and table for teacher  | 1 set |
|  | Marker board (6\*4)  | 1 set |
|  | Working tables | Sufficient to perform practicum for at least 10 students |
|  | Rack for Specimen and ware | As per need |
|  | Light microscope with different objectives | 5 pcs |
|  | Dissecting set | 10 sets |
|  | Dissecting Tray | 10 pcs |
|  | Slide & cover slip  | As per need |
|  | Glycerin | As per need |
|  | Plastic washing bottles | 5 pcs |
|  | Museum specimens of at least one each from the following group- * 1. Protozoa

– Rhizopoda, E. Histolytica, Mastizophora Euglena, Giardia, Leishmania, Ciliata& Paramecium,* 1. Porifera- sycon,
	2. Coelenterata- hydra
	3. Platyhelminthes:- cestodes- *T. Saginata, T. Solium, E. grannulosus*
	4. Nemathelminthes- *A.lumbricoides, T.trichura, E. vermicularis, A. duodenale, W. bancrofti*
	5. Annelida- Earthworm, Leach
	6. Arthropoda- crustacea- Prown, Crab,
	7. Insecta- Anopheles Culex, Aedes&mosquito
	8. Archnida- Scorpion, Spider
	9. Including life- cycle of Pediculus, Cimex
	10. Mollusca- Unio& Pila
	11. Echinodermata- starfish
	12. Pisces- scoliodon, labeorohite
	13. Amphibia- frog, toad, hyla
	14. Reptilia- wall lizard, netrix, naja (Kobra), bungarus, (Krait) viper, tortoise
	15. Aves- crow & pigeon
	16. Mammalia- Bat
 |

**7.3.2 Botany Lab**

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| **S.N** | **Item** | **Quantity** |
|  | Chair and table for teacher  | 1 set |
|  | Marker board  | 1 set |
|  | Working tables | Sufficient to perform practicum for at least 10 students |
|  | Rack for specimen and ware | As per need |
|  | Light microscope with different objectives | 5 pcs |
|  | Slide & cover slip |  As per need |
|  | Permanent slides of different stage of mitosis & meiosis cell division | 5 pcs |
|  | Gram staining kit  | 2 kit |
|  | Safranin | 1 bottle |
|  | Glycerine  | 1 bottle |
|  | Permanent slide of spirogyra &nostoc, bacteria, Nucleic acid | 2 pcs |
|  | Collection of different medicinal plants as prescribed by curriculum | 2 pcs |
|  | Bell jar | 5 pcs |
|  | Permanent slide of bacteria | 2 pcs |
|  | Chart of mucor, yeast, spirogyra, nostoc | 1 each |
|  | Dropper | 10 pcs |
|  | Permanent slides & museum specimen of mucor, yeast, penicillium, aspergillus &cleviceps |  |
|  | Cobalt chloride |  |

**7.4 Anatomy & Physiology / MaulikaSiddhanta and Shareera Demonstration Room:**

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| **S.N** | **Item** | **Quantity** |
| 1 | Marker board  | 1 Set |
| 2 | Demonstration table | Sufficient to perform practicum for at least 10 students  |
| 3 | Rack for dummy / model | As per need  |
| 4 | Adult size full body human skeleton | 1 pc |
| 5 | Muscular model & charts | 1 pc |
| 6 | Reproductive system model & charts | 1 pc |
| 7 | Female pelvic model & charts | 1 pc |
| 8 | Standard size model of different body organ (eye, ear, throat, heart, kidney, liver, lungs, joint with ligaments, brain, skin, uterus,) | 1 set each |
| 9 | Bone pieces of different parts | 1 set each |
| 10 | Foetal growth chart | 1 set |
| 11 | System wise Human body anatomical charts | 1 set each |
| 12 | Model of infant & adult (female)  | 1 pc each |
| 13 | Adult human model (with head, chest, abdomen and pelvic) | 1 pc |
| 14 | Model of fetal development as per fundal height | 1 Set |
| 15 | Aneroid Sphygmomanometers  | 5 pcs |

**7.5 Computer/ IT Lab:**

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| --- | --- | --- | --- |
| **S.No.** | **Item** | **Quantity** | **Remarks** |
| 1 | Marker board /Smart Board  | 1 set |  |
| 2 | Desktop computers with table and chairs | 10:20  | Computer: Students |
| 3 | Printer | 1 set |  |
| 4 | Facilities for internet networking in each computer | - | As per required |

**7.6 Dravyaguna/ Pharmacognosy Lab:**

|  |  |  |
| --- | --- | --- |
| **S.N.** | **Item** | Quantity  |
|  | Marker board /Smart Board  | 1 set |
|  | Demonstration table | Sufficient to perform practicum for at least 10 students |
|  | Herbarium press | 10 set |
|  | Light microscope | 5 |
|  | Dissecting microscope | 5 |
|  | Bunsen burner | 10 |
|  | Spirit lamp | 10 |
|  | Digital balance | 2 |
|  | Calorimeter | 2 |
|  | Heating mantle (Small and big) | 2 each |
|  | Autoclave | 1 |
|  | Hot air oven | 1 |
|  | Electric water bath | 1 |
|  | Centrifuge | 2 |
|  | Permanent slides of transverse section of medicinal plants- senna, datura, cinnamon, cinchona, coriander, fennel, clove, ginger, nux-vomica, ipecacuanha, mentha, lemongrass, nutmeg, chenopodium, turmeric, eucalyptus, dill, caraway, cardamom and fennel. | 2 each |
|  | Glass slides as required |  |
|  | Museum species of common medicinal plants | As required |

**7.7 Rasashastra, Bhaishajyakalpana, Toxicology and Pharma Technology/ hospital and clinical pharmacy Lab**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Item** | **Quantity**  |
|  | Mortar and pestle (small and big) | 2 pcs each |
|  | Metal Khalvayantra | 2 ps |
|  | Beaker (50, 100, 150, 200, 500, 1000ml) each | 5 pcs |
|  | Heating apparatus* Gas stove
* Induction cook top
* Heating mantle
* Hot air oven
* Electric muffle furnace
* Spirit lamp
* Crucible
* Hot water bath
* Autoclave
 | * 2 sets
* 1
* 1
* 1
* 1
* 2
* 1
* 1
* 1
 |
|  | Mixer and Grinder | 2 set |
|  | Porcelain jars | 3 pcs |
|  | Refrigerator | 1pcs |
|  | Pyrometer | 1pc |
|  | pH meter | 1 pc |
|  | Single punch tablet compression machine | 1 |
|  | Tablet Hardness testers | As required |
|  | Different sized sieves (12,16,20,30,40,60,80,100) | As required |
|  | Measuring cylinders (200,500,1000ml) | 5 each |
|  | Steel trays | As required |
|  | Capsule filling machine | 1 set |
|  | Disintegration tester | 1 set |
|  | Capsules shells of different sizes (for demonstration) | As required |
|  | Dissolution test machine | 1 |
|  | Digital balance * for low weight (upto 200gm)
* for high weight (upto 10kg)
 | * 1
* 1
 |
|  | Soxhalet apparatus | 1 set |
|  | Others* Frying pan
* Spatula of different sizes
* Knife
* Fire tongs
* Earthen pots and vessels
 | * 2
* 3 each
* 3
* 2
* As required
 |
|  | Additional * Pulveriser
* Percolator
 | As required |

**7.8 Biochemistry and Pathology Lab**

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| **S.No** | **Item** | **Quantity**  |
|  | Refrigerator | 1 |
|  | Incubator | 1 |
|  | Oven | 1 |
|  | Air conditioners | As required |
|  | Petri dishes | As required |
|  | Microscopes (binocular) | 5 sets |
|  | Microscopes (monocular | 5 sets |
|  | Autoclave  | 1 |
|  | Electric centrifuge machine | 2 |
|  | Water baths  | 3 |
|  | Test tubes | Sufficient quantities |
|  | Inoculation devices with loop | 3 set |
|  | Bacterial cultures (sterile) | As required |
|  | Capillary pipette (different sizes and volumes ) | Sufficient quantity |
|  | Bunsen burner | Sufficient quantities |
|  | Anti-septic solutions | Sufficient quantities |
|  | Protective clothing | Sufficient for 10 students |
|  | Gloves and masks | Sufficient quantities |
|  | Non-absorbent cotton/ cotton wool | Sufficient quantities |
|  | Following materials in suffiinetquantitites for media preparations* Media (peptone)
* Yeast extract
* Beef extract/ meat extract
* Sodium chloride
* Tryptone
* Soya
* Dextrose
* Potassium dihydrogen phosphate
* Agar( nutrient)
* Membrane filters
* Gentian violet
* Iodine
* Glycerine
 |

**7.9 Equipment, instruments, chemicals and teaching aids for general pharmaceutical techniques and clinical practices**

* Stethoscopes
* Sphygmomanometers
* Thermometers
* Tongue depressors
* Syringes and needles (disposables)
* Cotton
* IV sets
* IV cannulas of various size
* Gloves
* Scalpel and blades
* Knife holder
* Torches
* Guazes
* Crepe bandages
* Antiseptic solution as required
* Plain scissors
* IV stand
* Hot water bags
* Dissecting scissors
* Other relevant equioments

There shall be a provision of the following chemicals/consumables for the laboratory/ practical work for II and III years

* Syringes 5 ml and 10 ml
* Cotton rolls
* Glass tubes (large sizes)
* Glass tubes (small size)
* Filter paper
* Glass pipette (10ml)
* Glass pipette (5ml)
* Glass pipette (1ml)
* Cover slips
* Glass centrifuge tubes
* Microscopic glass slides
* Electric heaters
* Staining racks
* HCl
* H2SO4
* NaCl (LR and AR)
* Rectified spirit
* Crystal violet solution
* Lugol’s iodine solution
* Acetone
* Carbolfuchsin solution
* Ethylene blue solution
* Wright stain solution
* Giemsa stain
* Distilled water
* WB diluting fluid
* Plastic droppers
* pH papers
* Plastic washing bottles
* Methanol
* Measuring cylinder 1000 ml
* Measuring cylinder 100 ml
* Measuring cylinder 10 ml
* Microscopic oil
* Glycerine
* Beaker 500 ml
* Beaker 200 ml
* Beaker 100 ml
* Urea Reagent kits
* EDTA
* Copper Sulphate
* Potassium iodide
* Starch powder
* Sodium Thiousulphate
* Methyl red
* Sodium Hydroxide
* Sodium bicarbonate
* LPG
* Chemicals for the formulation of
	+ - Suspension
		- Emulsions
		- Dusting Powder
		- Whitefield ointment
		- Antiseptic solution
		- Elixir

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