



**PHYSICS LABORATORY INVENTORY (as of April 30, 2021)**

**BASIC EQUIPMENT**

Quantity	Names of Materials	Description	Remarks
14	Ruler		Functional and Available
25	Meter stick		Functional and Available
1	Force Table		Functional and Available
1	Conductivity Meter		Functional and Available
2	Calorimeter		Functional and Available
4	Digital Multi meters		Functional and Available
6	Multi Tester		Functional and Available
2	Electroscope Pith ball		Functional and Available
2	Galvanometer		Functional and Available
2	Panel Meter		Functional and Available
8	Compass		Functional and Available
2	Flashlight		Functional and Available
11( boxes)	Bar Magnet		Functional and Available
1	Steam engine section		Functional and Available
3	Concave Mirror		Functional and Available
3	Convex Mirror		Functional and Available
11 ( boxes )	Weights		Functional and Available
4	GPS		Functional and Available
4	Pulley		Functional and Available
1	Electroscopes sheet metal		Functional and Available
5	Vernier Caliper		Functional and Available
1 box	Slides and matter, change and energy		Functional and Available
1 ( box )	Double concave lens		Functional and Available
4	Magnet horseshoe		Functional and Available
1	Wave Apparatus		Functional and Available
5	Vernier Caliper Set of weights		Functional and Available
1	Weighing scale w/ wooden box		Functional and Available
2	Dynamic Cart		Functional and Available
2	Garmin		Functional and Available
5	Spring balance		Functional and Available



**New Purchases (as of February 21, 2021) of the school for Physics Laboratory  
 which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
4	Student Laboratory Table-open table type drawer in cup sink	Specification: Rectangular - open selves - 3.1m x 1.0m x 0.9h y Polyester resin w/ PTFE resin coated anti static (black or beige) Mounted electrical outlet with shutter (220V) with open type drawers. Made of heavy gauge tubular powder coated steel framestand Features: 10 to 12 open sieves Fixtures: (4) mounted electrical outlet Framestand was made of heavy gauge tubular steel powder coated finished
1	Slide Preparataion Tables fo r Physics	Specification----- r s Rectangular epoxy resin Gel kote-polyester resin "ACID RESISTANT" countertop black) s Base: Wooden Cabinet and Pegboard - Features:6-open type drawer , r Fixtures: 6 - Electrical outlet 220V
4	Force Table	Specification: Force Table Support Bar Bracket Mass and Hanger (Set 4) Center Pole Built-in Scale Force Table Pulley (4) Concurrent force string Non-concurrent force string Plug and Steel ball (6) Non-concurrent Disk
2	A ir Track	Specification: Air Track 1.5 m Low-volume Pump Cart (Big) Weight 10g; (4) Movable Connector Accessory Set; Photogate Photogate Electronic Timer
1	Free Fall (steel ball)	Specification: Free Fall Base; Free Fall Braket; Electromagnet; Target; Photogate Electronic Timer; Photogate; Immovable Holder; Steel Ball
1	Projectile Motion	Specification: Base , 1-CannonBracket, 1-Cannon 1 -Steel Ball 2-C -Shaped Clip * 1-Cannon Rod , 1-Free Fall Set , 1-Laser Set , 1-Digital Photogate Timing System .1- Shooting Target





**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	B allistic Pendulum	Specification: Digital Photogate Timing System Projectile Launcher Photogate Projectile Launcher Set; Includes; Angle Indicator Collision Object Sponge inelastic Collision Alumnum Board Elastic Collision S*Weight 20g x 2; 2-D Collision Set includes: L-shaped Bracket; Ball Photogate Set, Fixed Bracket Photogate Interval Fixer
1	Newton's Law o f Motion	Specification: Law of Inertia Experiment (Motion) Law of Inertia Experiment (Motionless) Linear Motion Experiment • Uniformly Accelerated Motion Experiment Action and Reaction Experiment Elastic Collision Experiment Jnelastic Collision Experiment on Simple harmonic Experiment
1	Centripetal Force Apparatus	Specification: 1-Centripetal Force Base 1-Aluminum Platform Scale J-Speed Regulator 1-DC Power Supply (9V) 1-AV Connection Cable s 1-Level Indicator .1-Movable Connector 8-Pulley 1-L-shaped Weight Holder 25g; 1-Weight 10g 1-Rotating Body 100g . 1-DC Motor .1-Drive Belt 1-Rotating Body Hanger 1-Centripetal Force Indicator 2-Adjustable Feet 1-Balance Weight . 1-60-Grid Fence 1-Photogate 1-Photogate Electronic Timer



New Purchases (as of February 21, 2021) of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022

Quantity	Equipment/Materials	Description
1	Hooker's Law Apparatus	Specification: (1) Experimental base and supporting jacket (2) Hook Connector, (1) Spring set 0.5N, 1N, 2N, 3N, 5N; (1) Weight 250g; s' (1) Movable Bracket Connector; (2) L-shaped Bracket; (2) Simple Harmonic Motion-Weight Hold; (1) Simple Harmonic Motion - Fixer
1	Sonometer system	Specification: 1-Sonometer Base 1-Tension Adjuster 1-Tension Adjustable Rod 2-Adjustable Holder 2-Adjustable Coil Set 1-Iron Wire 1-Weight 1-Digital Frequency Generator Amplifier s' Frequency range: 0.01 Hz to 9999.9 Hz; s' Precision: 0.01Hz; Amplitude: 1 to 99% Power: 110V/220V; USB Port XI; Stroboscope PorX4; 5W Illumination: 210 lumen
1	Thermal Conductivity Apparatus	Specification: 1-Experimental Base 1-Measurable Object Fixer 3-Measurable Object 3-Cling Container A-Beaker 1-Steam Heating Pot 1-Silica Gel Tube
1	Thermal Expansion Apparatus,	Specification: 1-Thermal Expansion Base 1-Length Gauge 3-Metal to be measure 4-Fixer 1-Petri Dish 1-Silica Gel Tube; 1-Steam Heating Pot



New Purchases (as of February 21, 2021) of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022

Quantity	Equipment/Materials	Description
1	Wheatstone Bridge Experiment	Specification: 1-Mounted Resistance Coils 1-Resistance Box 1-Galvanometer $\pm 50$ micro A 1-Probe 1-Electronic Bridge 6-Connection Line 1-Power Supply (DC 1.5V)
1	Electricity Demonstration Kit	Specification: 2-Bread Board (360mm x 240mm x 20mm) 1-Circuit Switch with storage box 2-Battery Holder (AA with storage box) 1-DC External End with storage box 5-Voltmeter (0 to 10V) 3-Current Meter (0 to 1000mA) 1-Galvanometer (-50micro A to +50 micro A) 10-1-Shaped Wire w/ storage box 4-2-T-shaped Wire w/ storage box 1-2-L-shaped Wire w/ storage box 1-slide Wire Bridge (360mm x 100mm x 40mm) 1-Adjustable Resistance x 100 ohms 2-Adjustable Resistance x 10 ohms 1-Adjustable Resistance x 1 ohms A-measured Resistance a [copper, (0.28mm, 20m)] 1-measured Resistance b [copper, (0.28mm, 10m)] 1-measured Resistance c [copper, (0.14mm, 20m)] 1-measured Resistance d [copper, (0.14mm, 10m)] 2-Transformer (12V DC); 1-Storage Box (740mm x 540mm x 160mm, $\pm 20$ mm) 1- Experimental Manual
1	Kirchoffs Voltage Law	Specification: 2-Bread board; 2-DC Power Supply 6-Voltmeter 3-Ampere meter and Variable Resistor, 5-L-shaped junction box 2-L-shaped and T-shaped junction box 2-Power terminal junction box





**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Determination of a Current in a Straight Wire	Specification: - A -Aluminum Base A -Angle Disk 1-Copper Wire; 1-Square Coil 1 set .1-Square Coil 5 set 4-Smail Compass 1-Built-in Scale Compass 1-Current Restricted Power Supply
1	Mechanics 1 Laboratory Equipment with Accessories	Specification: Dynamics trolley -1 unit less friction, with tower for the mounting of slotted weight Pull measuring tape: length: 300cm -1 unit Plastic scale pan with suspension 3 inches dia. - 2 units Pointer for lever rod -1 unit Scale with graduation -1 unit Sliding saddle for lever rod -1 unit Lead shot, 50g -1 unit i— Digital Vernier caliper -1 unit Stainless Steel Measuring range: 0.1mm to 150mm/0.001 inch to 6 inches > Beaker (glass), 100ml -1 pc Graduated Cylinder (glass), 100ml -1 pc / > Immersion probe -1 set > Manometer-tube, acrylic, D=8mm, L=200mm - 2 units y > Acrylic tube, D=8mm, L=80mm 1 unit Acrylic tube, D=20mm, L=120mm-1 unit Stopper silicone, 12.5/18/1 Tn, 1 hole - 1 unit V f Test tube glass 12x 100mm -1 unit Slotted weight, 50g - 4 units Slotted weight, 10g - 4 units Holder for slotted weights, 10q - 2 units Balance weights -1 set 7 pcs in 1 set: i '1-200gms 2-100gms 1-50gms 2-20gms 1-10gms . Support rod, round, L=500mm, D=10mm - 2 units Acrylic tube, D=8mm, L=80mm Hollow block 50x20x20mm -1 unit Aluminum block 100gms -1 unit Block iron with hook 100gms -1 unit Block iron with hook 50gms -1 unit Coil spring 3 N/m, D=35mm - i unit Coil spring 20 N/m, D=12mm -1 unit



**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Mechanics 1 Laboratory Equipment with Accessories	Lever rod for balance, L=420mm -1 unit Flat spring steel, 0.4mm, L=165mm -1 pc Capillary tubes (Haematocrit tube) 100 pcs/tube Single Pulleys, plastic - 4 units Tubing plastics, transparent, 100cm -1 pc Tubing plastics, transparent, 16cm -1 pc Dynamometer, transparent 2 N - 2 pcs Note: a. All modules must include the appropriate accessories and rail stand b. To include storage box with cover for every line item, manual/kit c. All items under the lot must be compatible with each other. d. All equipment/materials must be laboratory grade.
1	Dynamics 1 Laboratory Equipm ent with Accessories\	Consist of at least the following: Dynamics trolley - 2 units less friction, with tower for the mounting of , slotted weight Trolley with variable speed -1 unit battery powered (9V) with switch Ahead/Off/Back Sockets Slotted weight, 50g - 4 pcs : Slotted weight, 10g - 3 pcs Holder for slotted weights, 10q -1 pc. Spring bumper - 2 pcs Pulley with very low friction -1 unit Cart body for trolley - 2 units Flat Spring -1 unit Support rod, round, L=60mm, D=10mm -1 unit Pull measuring tape, L=300cm -1 unit Track and optical bench, 2 x 50cm -1 unit Hail bond, universal -1 unit Note: a. All modules must include the appropriate accessories and rail stand b. To include storage box with cover for every line item, manual/kit and training for the end users c. All items under the lot must be compatible with each other. d. All equipment/materials must be laboratory grade



New Purchases (as of February 21, 2021) of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022

Quantity	Equipment/Materials	Description
1	Circular Motion Laboratory Equipment with Accessories	Consist of at least the following: 1-Centrifugal hoops "compact" -1 unit Watt's governor "compact" -1 unit Foucault's pendulum "compact" -1 unit Rotating disk "compact" -1 unit Locking Screw M3, small -1 unit Steel balls 1/2" (12.7mm) - 2 sets Rotational dynamics paradox/accelerometer "compact" -1 unit Combined cuvette and pending balls Drive engine "compact" -1 set MBC pivot bearing with transmission ratio Magnetic base for drive pulley "compact" Drive pulley "compact", D=100mm Drive belt "compact" Assembly platform for MBCs (Magnetic Base Compact Note: a. All modules must include the appropriate accessories and rail stand b. To include storage box with cover for every line item, manual/kit and training for the end users c. All items under the lot must be compatible with each other. d. All equipment/materials must be laboratory grade
1	Centrifugal Force	Consist of at least the following: Centrifetal force apparatus with motor - 1 unit Support base, L=250mm, solid aluminum H-base, 250 x 200 mm, with rubber feet, jackscrews, table clamps, counting gate - 1 set Sliding saddle, H=40mm - 1 unit Support rod, round, L=250mm, D=10mm Slider with gate for centripetal force apparatus - 1 unit Slotted weight, 50g - 2 pcs Slotted weight, 10g - 4 pcs Dynamometer 2 N, transparent, - Range: at least 2 N, Resolution: at least 0.02 N - 1 unit Handheld stopwatch, digital 1/100 s - 1 unit Note: a. All modules must include the appropriate accessories and rail stand b. To include storage box with cover for every line item, manual/kit and training for the end users c. All items under the lot must be compatible with each other. d. All equipment/materials must be laboratory grade





**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Circular Motion Laboratory Equipment with Accessories	<p>Consist of at least the following:</p> <p>Graduated cylinder, plastic 100ml - 1 pc</p> <p>Bodies for heat-radiation, (White and Black) - 1 set</p> <p>Bimetallic strip - 1 unit</p> <p>Wax crayon - 1 pc</p> <p>Tubing plastics, transparent, 100cm - 2 units</p> <p>Manometer-tube, acrylic - 2 units r D=8 mm, L=200 mm -- Needle Steel, right angles - 1 unit</p> <p>Spirals for heat radiation - 1 set</p> <p>Holder for dynamometers and test tubes - 1 unit</p> <p>Wax straps - 1 unit</p> <p>Glass tube straight, l+80 mm - 1 unit</p> <p>Support rings - 1 set -D= 102mm;</p> <p>bracket for wire gauze -D = 62mm:</p> <p>bracket for the beaker r D = 35mm:</p> <p>bracket for Erlenmeyer flask</p> <p>Wire gauze 150x150 mm</p> <p>1 pc Beaker glass 250ml</p> <p>1 pc s Made of borosilicate glass, 100ml - 1 pc</p> <p>Erlenmeyer flask glass, 100ml - 1 pc.</p> <p>Tube for heat expansion, alu - 1 pc .</p> <p>Tube for heat expansion, iron - 1 pc</p> <p>Pointer with plug - 2 units</p> <p>Slider with setting for heat expansion - 1 unit</p> <p>Slider for pointers for heat expansion - 1 unit</p> <p>Test tube, glass 16 x 160 mm, - 2 pcs</p> <p>Aluminum block -1 unit</p> <p>Block iron with hook, small -1 unit</p> <p>Insulation flask with lid -1 unit</p> <p>with 2 beakers, volumes: 150 and 700ml</p> <p>insulating beaker . transparent cover</p> <p>Support rod, round, L=500 mm, D=10mm</p> <p>Thermometer (Alcohol) - 2 pcs , Graduate .</p> <p>Partition 1 °C - *-10 ... +110°C</p> <p>Thermometer -1 pc - not graduated</p> <p>Note:</p> <p>a. All modules must include the appropriate accessories and rail stand</p> <p>b. To include storage box with cover for every line item, manual/kit and training for the end users</p> <p>c. All Items under the lot must be compatible with each other.</p> <p>d. All equipment/materials must be laboratory grade</p>



**New Purchases (as of February 21, 2021) of the school for Physics Laboratory  
 which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Magnetism	<p>Consist of at least the following:</p> <p>Bar magnet - 2 units            AlNiCo - D=10 mm, L=50 mm - red / green varnished 14.2) Pocket compass -1 unit y 14.3)            Earth-model -1 unit            D=56 mm            With inscription and shaft            14.4) Magnetic field sensor, big - 1 unit .            14.5) Plug pin with needle - 1 unit .            14.6) Supporting plate for bar magnets - 2 units .            14.7) Threaded bolt steel - 4 units            L=40 mm - Can be magnetized - Inter-screwable steel rods Insulating block with socket - 1 unit            Magnetic field plate "compact" - 1 unit            Dimension: approx. 155 x 90 x 10 mm            Pole lamination, 60 x 25 mm - 2 units            Test tube, plastic, 16 x 150 mm, - 1 pc            Magnetic field sheet, 100 x 70 mm - 1 unit            Magnetic rubber bar, 100 x 25 mm - 1 unit            Soft iron ring - 1 unit</p> <p>Note:</p> <p>a. All modules must include the appropriate accessories and rail stand            b. To include storage box with cover for every line item, manual/kit and training for the end users            c. All items under the lot must be compatible with each other.            d. All equipment/materials must be laboratory grade</p>
1	Optics 1	<p>Consist of at least the following:</p> <p>Light source - 1 unit            Halogen 12 V / 20 W Prism-body acrylic, trapezoid - 1 unit            Lens-body acrylic, semicircle - 1 unit            Prism-body acrylic, right angle - 1 unit            Lens-body acrylic, plano-convex - 2 units            Lens-body acrylic, plano-concave - 1 unit            Optical disk, with graduation White Screen - 1 unit            Mirror plane - 1 unit            Mirror concave/convex, adjustable - 1 unit            Shutter with 1 and 2 slits - 1 unit            Shutter with 3 and 5 slits - 1 unit            Plastic tank - 1 unit            transparent - 65 x 47 mm - with white base and cover</p>





**New Purchases (as of February 21, 2021) of the school for Physics Laboratory  
 which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Optics 2	<p>Consist of at least the following:</p> <p>Lens glass, in holder, fl = +50 mm - 1 unit            Lens glass, in holder, fl = 100 mm - 1 unit            Lens glass, in holder, fl = +300 mm - 1 unit            Lens glass, in holder, fl = +100 mm - 1 unit            Concave mirror in mount - 1 unit            Concave mirror in mount - 1 unit            Convex mirror in mount - 1 unit            Holder for lenses and apertures - 3 units            Holder for slides and apertures, slip-on type - 2 units            Round apertures - 1 unit            Set of 3, D= 1, 3 and 8 mm Slide with "L" - 1 unit            Slide with 4 drawings - 1 unit            Slide with 1 slit - 1 unit            Earth-moon model - 1 unit            Axle shaft buckled in 23° D = 56 mm            Screen translucent, in holder - 1 unit            Diode lamps - 1 unit –            With supply modules 4.5... 15 V DC as well as connecting cables            Colour filter set, subtractive - 1 unit            Sliding saddle for optical bench - 3 units            Sliding saddle with setscrew - 1 unit            Prism, equilateral, glass, S=25 mm - 1 unit            Prism, table - 1 unit</p> <p>Note:</p> <p>a. All modules must include the appropriate accessories and rail stand            b. To include storage box with cover for every line item, manual/kit and training for the end users            c. All items under the lot must be compatible with each other.            d. All equipment/materials must be laboratory grade</p>
1	E lectrostatics	<p>Consist of at least the following:</p> <p>Electroscope - 2 units            Aluminum profile with 4-mm-plug L= 140mm            Less friction bearing a. Acrylic bar -1 units            150x10mm drill holes for the he alu-rod D= 4mm            Plastic bar, 150x10 mm -1 unit            Plastic bar, 150x10 mm with drilling -1 unit            Polyethylene rubber pad -1 uni</p>



New Purchases (as of February 21, 2021) of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022

Quantity	Equipment/Materials	Description
1	Electrostatics	Aluminum bar, 150x4 mm - 1 unit Acrylic bar, with drilling - 1 units Fluorescent lamp - 1 unit Insulating block with socket - 2 units Plug pin with needle - 1 unit Aluminum-stripe Simple Electroscope - 2 units Faraday beaker - 1 unit Note: a. All modules must include the appropriate accessories and rail stand b. To include storage box with cover for every line item, manual/kit and training for the end users c. All items under the lot must be compatible with each other. d. All equipment/materials must be laboratory grade

Prepared by:

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Checked by: GLENNAR G. RACINES  
Administrative Aide

Noted by:

ELSA C. PELICANO  
Administrative Officer V-Supply Officer III





### CHEMISTRY LABORATORY INVENTORY (as of April 30, 2021)

The laboratory materials and equipment are arranged based on CMO 35 Guidelines

#### A. GLASSWARES

Quantity	Name of glasswares	Description / Capacity	Remarks
1	Erlenmeyer Flask	1000 ml	Functional and Available
7	Erlenmeyer Flask	500 ml	Functional and Available
12	Erlenmeyer Flask	300 ml	Functional and Available
58	Erlenmeyer Flask	250 ml	Functional and Available
14	Erlenmeyer Flask	125 ml	Functional and Available
1	Graduated Cylinder	1000 ml	Functional and Available
3	Graduated Cylinder	500 ml	Functional and Available
13	Graduated Cylinder	250 ml	Functional and Available
14	Graduated Cylinder	100 ml	Functional and Available
15	Graduated Cylinder	50 ml	Functional and Available
18	Graduated Cylinder	25 ml	Functional and Available
15	Graduated Cylinder	10 ml	Functional and Available
1	Beaker	1500 ml	Functional and Available
11	Beaker	1000 ml	Functional and Available
24	Beaker	600 ml	Functional and Available
11	Beaker	500 ml	Functional and Available
44	Beaker	400 ml	Functional and Available
48	Beaker	250 ml	Functional and Available
1	Beaker	150 ml	Functional and Available
20	Beaker	100 ml	Functional and Available
12	Beaker	50ml	Functional and Available
29	Watch Glass	Large	Functional and Available
8	Watch Glass	Medium	Functional and Available
7	Watch Glass	Small	Functional and Available
10	Petri dish		Functional and Available
46	Crucible		Functional and Available
51	Crucible cover		Functional and Available



Quantity	Name of glasswares	Description / Capacity	Remarks
47	Evaporating dish	small	Functional and available
14	Evaporating dish	Medium	Functional and Available
1	Evaporating dish	Big	Functional and Available
39	Funnel		Functional and Available
10	Stirring rod		Functional and Available
13	Reagent Bottles		Functional and Available
5	Separatory funnel		Functional and Available
7	Retort flask	Round flask w/ long tube	Functional and Available
10	Volumetric Flask	500 ml	Functional and Available
13	Volumetric Flask	250 ml	Functional and Available
1	Volumetric Flask	200 ml	Functional and Available
6	Volumetric Flask	100 ml	Functional and Available
9	Volumetric Flask	50 ml	Functional and Available
5	Volumetric Flask	25 ml	Functional and Available
20	Culture tubes	With cover	Functional and Available
10	Culture tubes	Without cover	Functional and Available
38	Centrifuge tube		Functional and Available
50	Test tubes	5 ml	Functional and Available
25	Test tubes	10 ml	Functional and Available
1299	Test tubes	25 ml	Functional and Available
50	Test tubes	50 ml	Functional and Available
13	Florence flask	500 ml	Functional and Available
5	Florence flask	250 ml	Functional and Available
5	Florence flask	125 ml	Functional and Available
1	Base buret	50 ml	Functional and Available
9	Base buret	25 ml	Functional and available
9	Weighing bottles		Functional and available
3	Round bottom flask	500 ml	Functional and available





Republic of the Philippines  
**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
Narciso Street, Surigao City



*"For Nation's Greater Heights"*

Quantity	Name of glassware	Description/Capacity	Functional and Available
2	Acid Burette	50 ml	Functional and available
5	Acid Burette	25 ml	Functional and Available
12	Pipette	10 ml	Functional and Available
6	Distilling tube		Functional and available



### OTHER EQUIPMENTS

Quantity	Name of equipment	Description	Remarks
17	Iron ring		Functional and Available
22	Tripod		Functional and Available
48	Test tube holder		Functional and Available
28	Test tube brush		Functional and Available
28	Tongs		Functional and Available
3	Burette holder		Functional and Available
13	Iron clamp		Functional and Available
21	Iron stand		Functional and Available
1	Hot plate		Functional and Available
2	Electric stove		Functional and Available
13	Test tube rack	Wooden	Functional and Available
7	Test tube rack	Metal	Functional and Available
1	Centrifuge Machine		Functional and Available
45	Rubber Stopper	Big	Functional and Available
40	Rubber Stopper	Small	Functional and Available
21	Double beam balance		Functional and Available
5	Triple beam		Functional and Available
7	Double pan weighing scale		Functional and Available
1	Desiccator		Functional and Available
22	Mortar		Functional and Available
17	Pestle		Functional and Available
10	Bunsen burner		Functional and Available
58	Wire gauze		Functional and Available



Quantity	Name of equipment	Description	Remarks
10	Thermometer		Functional and Available
4	pH meter		Functional and Available
4	Rubber bulb		Functional and Available
5	4 in 1 soil survey instruments		Functional and Available
2	Tin Pan		Functional and Available
2	Iron rod		Functional and Available
1 ( box )	Litmus paper		Functional and Available
1 ( box )	Filter paper		Functional and Available
4	Magnet horseshoe		Functional and Available
1	Magnet bar		Functional and Available
2	Spatula		Functional and Available
4	Long Iron Clamp		Functional and Available
1	Iron Clamp (red)		Functional and Available
5	Tripod Aluminum Stand		Functional and Available
5	Tripod (black)		Functional and Available
3	Tripod (Triangle)		Functional and Available
4	Tripod (round)		Functional and Available





**B. BASIC EQUIPMENTS**

Quantity	Name of equipment	Description	Remarks
1 set	Water quality checker with probes	Onitron brand (bench type)	Functional and Available
1 unit	Oven		Functional and Available
1 unit	Furnace		Functional and Available
2 units	UV VIS		Functional and Available
1 unit	Vacuum filter		Functional and Available
1	Refractometer		Functional and Available
2	Toploading balance		Functional and available
1	Multi parameter Water Quality Checker	Hanna Brand	Functional and Available
1	Multi parameter Water Quality Checker-	Horiba brand	Functional and Available (new ppurchase)
7	Phytometer		Functional and Available
2	Desiccator		Functional and Available
1	Atomic Absorption Spectrophotometer	With lamps	Functional and Available
	Fumehood		Functional and Available
1	Emergency Safety Drench Shower and Eye/Face Wash		To be installed

C. Atomic and molecular models are available

D. Smart televisions are installed in the laboratory rooms .

Prepared by:

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 Laboratory In-charge

**RICKY T. OSORIO**  
 Laboratory In-charge

**Checked by: GLOMAR G. RACINES**  
 Administrative Aide

**Noted by:**  
**ELSA C. PELICANO**  
 Administrative Officer V-Supply Officer III



**New Purchases (as of February 21, 2021) of the school for Chemistry Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
4	Student Laboratory Table-open table type drawer in cup sink	<p>Specification</p> <p>Rectangular - open selves - 3.1 m x 1,0m x 0.9m</p> <p>Polyester resin w/ PTFE resin coated anti static and chemical resistance countertop black</p> <p>Complete gas outlet, water outlet in spicket faucet and electrical outlet</p> <p>Made of heavy gauge tubular powder coated steel framestand Features:</p> <p>12 open type drawer, (4) cup sink on top in water spicket and (4) ceramic gas Spicket and electrical outlet and all heavy gauge stainless pipe for gas</p> <p>All heavy gauge stainless pipe for gas</p> <p>Framestand was made of heavy gauge tubular steel powder coated finished</p> <p>Dimension 3.1 m x 1.0m x 0.90m</p>
1	Teacher's Demonstration Table	<p>Polyster resin gel-keto acid resitant counter top black 1 3/4 thick</p> <p>Built in cabinet and drawers, complete w/ gas, water and converter/charger</p>
1	Emergency Safety Drench Shower and Eye/Face Wash	<p>S/S 316 material Head: 10" shower and eye wash waste water reclamation bowl S/S eyewash head in flip top dust cover</p>
1	Analytical Balance	<p>Specification:</p> <p>w p Weighing capacity: 220.00 grams s</p> <p>Minimum display: 0.0001 gram</p> <p>• Repeatability/ Standard deviation): 50.1 mg T—</p> <p>Linearity: ±0,2 mg Response time: 1.5 sec to 3.0 sec Pan size: 91mm diameter</p> <p>Calibration modes: internal (automatic) &amp; external (manual) ---</p> <p>Power requirement: 240V y— Output terminal: RS232, USB-Type B r—Body dimension: 213Wx356Dx338H(mm) LCD Digital Display c</p> <p>Technical Features: - Engineer weighing technology Built-in, motor-driven automatic claibration</p> <p>S Interface capability with software</p>



**New Purchases (as of February 21, 2021) of the school for Chemistry Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/ Materials	Description
1	Acid Resistant Laboratory Fumehood	<p>Specification:</p> <p>UV lamp for Sterilization Motorized front glass window.</p> <p>Adjustable air speed: 9 levels Alarm when filter working time 3500 hours</p> <p>With air velocity memory function in case of power failure. Back side air compensation, to avoid turbulence in work area.</p> <p>10° slope front ergonomics design, fatigue-free working posture.</p> <p>Microprocessor control system, LED display shows filter working time.</p> <p>Transparent side glass windows maximize light and visibility inside the cabinet, providing a bright and open working environment.</p> <p>External Size:(WxDXH) 1000x840x2150mm Internal Size: 880x730x745 mm</p> <p>Max opening: 520mm Work surface Height: 750mm Blower: Built-in centrifugal blower, speed adjustable with 9 levels</p> <p>Air Velocity: 0.3 to 0.8 m/s</p> <p>Noise: s60dB</p> <p>Flourescent Lamp: 18 W UV lamp: Emission of 253.7 nanometers for most efficient decontamination</p> <p>Front windows: Motorized: 5mm toughened glass, anti-UV</p> <p>Material: Exterior Body: Cold-rolled steel with anti-bacteria power coating</p> <p>Work Table: Chemical resistant phenolic resin.</p> <p>Power Supply: 220V, 60Hz Consumption: 400W Standard accssories: Water tap, gas tap, water sink, base stand, UV lamp Flourescent Lamp,</p> <p>With one waterproof socket consumption not more then 500W. 4 meter exhaust duct,</p> <p>Active carbon filter, Foot switch.</p>

*Hugo*

Prepared by:

**ROSALIA L. HUGO**  
 Laboratory In-charge

**RICKY T. OSORIO**  
 Laboratory In-charge

**Checked by: GLOMAR G. RACINES**  
 Administrative Aide

**Noted by:**  
**ELSA C. PELICANO**  
 Administrative Officer V-Supply Officer III





## BIOLOGY LABORATORY INVENTORY (as of April 30, 2021)

The laboratory materials and equipment are arranged based on CMO 35 Guidelines

### A. Basic Glasswares

Quantity	Name of glasswares	Description / Capacity	Remarks
1	Erlenmeyer Flask	1000 ml	Functional and Available
7	Erlenmeyer Flask	500 ml	Functional and Available
12	Erlenmeyer Flask	300 ml	Functional and Available
58	Erlenmeyer Flask	250 ml	Functional and Available
14	Erlenmeyer Flask	125 ml	Functional and Available
1	Graduated Cylinder	1000 ml	Functional and Available
3	Graduated Cylinder	500 ml	Functional and Available
13	Graduated Cylinder	250 ml	Functional and Available
14	Graduated Cylinder	100 ml	Functional and Available
15	Graduated Cylinder	50 ml	Functional and Available
18	Graduated Cylinder	25 ml	Functional and Available
15	Graduated Cylinder	10 ml	Functional and Available
1	Beaker	1500 ml	Functional and Available
11	Beaker	1000 ml	Functional and Available
24	Beaker	600 ml	Functional and Available
11	Beaker	500 ml	Functional and Available
44	Beaker	400 ml	Functional and Available
48	Beaker	250 ml	Functional and Available
1	Beaker	150 ml	Functional and Available
20	Beaker	100 ml	Functional and Available
12	Beaker	50ml	Functional and Available
29	Watch Glass	Large	Functional and Available
8	Watch Glass	Medium	Functional and Available
7	Watch Glass	Small	Functional and Available
10	Petri dish		Functional and Available
46	Crucible		Functional and Available
51	Crucible cover		Functional and Available



Quantity	Name of glasswares	Description / Capacity	Remarks
47	Evaporating dish	small	Functional and available
14	Evaporating dish	Medium	Functional and Available
1	Evaporating dish	Big	Functional and Available
39	Funnel		Functional and Available
10	Stirring rod		Functional and Available
13	Reagent Bottles		Functional and Available
5	Separatory funnel		Functional and Available
7	Retort flask	Round flask w/ long tube	Functional and Available
10	Volumetric Flask	500 ml	Functional and Available
13	Volumetric Flask	250 ml	Functional and Available
1	Volumetric Flask	200 ml	Functional and Available
6	Volumetric Flask	100 ml	Functional and Available
9	Volumetric Flask	50 ml	Functional and Available
5	Volumetric Flask	25 ml	Functional and Available
20	Culture tubes	With cover	Functional and Available
10	Culture tubes	Without cover	Functional and Available
38	Centrifuge tube		Functional and Available
50	Test tubes	5 ml	Functional and Available
25	Test tubes	10 ml	Functional and Available
1299	Test tubes	25 ml	Functional and Available
50	Test tubes	50 ml	Functional and Available
13	Florence flask	500 ml	Functional and Available
5	Florence flask	250 ml	Functional and Available
5	Florence flask	125 ml	Functional and Available
1	Base buret	50 ml	Functional and Available
9	Base buret	25 ml	Functional and available
9	Weighing bottles		Functional and available
3	Round bottom flask	500 ml	Functional and available



Quantity	Name of glassware	Description/Capacity	Functional and Available
2	Acid Burette	50 ml	Functional and available
5	Acid Burette	25 ml	Functional and Available
12	Pipette	10 ml	Functional and Available
17	Iron ring		Functional and Available
22	Tripod		Functional and Available
48	Test tube holder		Functional and Available
28	Test tube brush		Functional and Available
28	Tongs		Functional and Available
3	Burette holder		Functional and Available
13	Iron clamp		Functional and Available
21	Iron stand		Functional and Available
1	Hot plate		Functional and Available
1	Stirring rod		Functional and Available
2	Electric stove		Functional and Available
13	Test tube rack	Wooden	Functional and Available
7	Test tube rack	Metal	Functional and Available
1	Centrifuge Machine		Functional and Available
45	Rubber Stopper	Big	Functional and Available
40	Rubber Stopper	Small	Functional and Available
21	Double beam balance		Functional and Available
5	Triple beam		Functional and Available
7	Double pan weighing scale		Functional and Available
1	Desiccator		Functional and Available
22	Mortar		Functional and Available
17	Pestle		Functional and Available
10	Bunsen burner		Functional and Available
58	Wire gauze		Functional and Available





**B. BASIC EQUIPMENTS**

Quantity	Name of equipment	Description	Remarks
1 unit	Oven		Functional and Available
1 unit	Furnace		Functional and Available
2 units	UV VIS		Functional and Available
1 unit	Vacuum filter		Functional and Available
1	Refractometer		Functional and Available
2	Toploading balance		Functional and available
2	Desiccator		Functional and Available
1	Atomic Absorption Spectrophotometer	With lamps	Functional and Available
	Fumehood		Functional and Available
1	Emergency Safety Drench Shower and Eye/Face Wash		To be installed
7	Compound Microscope		Functional and Available
3	Electronic Microscope		Functional and Available
5	Coplin Jar		Functional and Available
20 pcs	Forcep		Functional and Available
4	Hemocytometer		Functional and Available
	Glass Slides		Functional and Available
	Depression Slide		Functional and Available
9 ( boxes )	Glass cover		Functional and Available
4	Hemocytometer Art. No. 1280		Functional and Available
2( boxes )	Micro slides		Functional and Available
3 ( boxes )	Depression slides Microbio		Functional and Available
1	Magnifying glass		Functional and Available
20	Dissecting set		Functional and Available
1	Incubator		Functional and Available

C. Smart televisions are installed in laboratory rooms

Prepared by:

**ROSALIA L. HUGO**  
 Laboratory In-charge

**RICKY T. OSORIO**  
 Laboratory In-charge

Checked by: **GLOMAR G. RACINES**  
 Administrative Aide

Noted by:  
**ELSA C. PELICANO**  
 Administrative Officer V-Supply Officer III



**New Purchases (as of February 21, 2021) of the school for Biology Laboratory which are available and can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
4	Student Laboratory Table-open table type drawer in cup sink	<p>Specification</p> <p>Rectangular - open selves - 3.1 m x 1,0m x 0.9m</p> <p>Polyester resin w/ PTFE resin coated anti static and chemical resistance countertop black</p> <p>Complete gas outlet, water outlet in spicket faucet and electrical outlet</p> <p>Made of heavy gauge tubular powder coated steel framestand Features:</p> <p>12 open type drawer, (4) cup sink on top in water spicket and (4) ceramic gas Spicket and electrical outlet and all heavy gauge stainless pipe for gas</p> <p>All heavy gauge stainless pipe for gas</p> <p>Framestand was made of heavy gauge tubular steel powder coated finished</p> <p>Dimension 3.1 m x 1.0m x 0.90m</p>
1	Teacher's Demonstration Table	<p>Polyster resin gel-keto acid resitant counter top black 1 3/4 thick</p> <p>Built in cabinet and drawers, complete w/ gas, water and converter/charger</p>
1	Emergency Safety Drench Shower and Eye/Face Wash	<p>S/S 316 material Head: 10" shower and eye wash waste water reclamation bowl S/S eyewash head in flip top dust cover</p>
1	Hot Plate & Magnetic Stirrer	<p>Specification:</p> <p>Maximum stirring volume H 2 0 :20 Liters capacity Plate dimension: 180 x 180 mm</p> <p>Stirrer speed range: 1500 rpm - Heating Temperature: 400°C Max</p> <p>Heat Control: Pine PWM controller ■r—</p> <p>Speed controller: Stepless</p> <p>Heating Output: 600 Watts r</p> <p>Power Supply: 220V, 50/60Hz</p>
1	Laboratory Centrifuge	<p>{specification:</p> <p>Strong plastic case with metal lid .</p> <p>With safety switch &amp; mechanical door lock</p> <p>Max RPM: 16000, stepless speed adjustment</p> <p>Max RPM: 17000g –</p> <p>Time: 0- 30 min Rotor</p> <p>Capacity: 1.5/2.0ml x 12</p> <p>Standard r- Votage: 220V, 60Hz</p>



**New Purchases(as of February 21, 2021) of the school for Biology Laboratory Room which can be used for the first semester of AY 2021-2022**


Quantity	Equipment/Materials	Description
1	Drying Oven	Specification: Capacity: 172 liters – Type: Mechanical Convention Temp Range: Ambient + 5°C to 220°C _____* Circulation Fan: 20W Blower Fan Temperature control: Digital PID Control PID Setting: Auto Tuning Display: LED Display Material: Stainless Steel
5	Digital Microscope	LCD Digital Microscope (40 x to 600x, up to 2400 w/ digital Zoom - - ^ 4.3 LCD Touch Screen 5MP CMOS build in digital camera 5 fully achromatic objective lenses: 4x, 10x, 20x, 40x, 60x top and bottom adjustable LED illumination, 180 degrees ratable LCD screen, Fully Mechanical stage, coarse and fine focus Knobs, Filter wheel/diaphragm, AV/TV output cable, optional mode, SD Card slot w/ 4gb SD Card included supports up to 32 gB, universal AC adapter Multi plugs for international usaae. accessories included: 10 prepared slides, hard carrying case, dust cover, touch pen, USB cable, AV cable
5	- 40X-2000X Digital Laboratory LED Binocular Compound	Microscope with Double Layer Mechanical Stage and USB Digital Camera 1 with a 45 degrees inclined 360 degrees swiveling biocular sliding viewing head, two pairs of widefield eyepieces, four achromatic objectives, Stainresistant double layer mechanical stage with scales, coarse & fine focusing NA 1.25 Abbe condenser an ariable intensity LED transmitted illumination system, with eight levels of magnification power: 4X-80X-100X- 200X-400X-800X-1000X-2000X f USB digital imaging system that captures microscope images and live video on computer, included software compatible with Windows XPA/ista/7/8/10 can be used to make measurements





**New Purchases (as of February 21, 2021) of the school for Biology Laboratory Room which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Plankton net	
	Prepared Slides:	include the following Microbes Bacteria Animal Tissues Cells Plant Tissues

Prepared by:   
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Laboratory In-charge

**RICKY T. OSORIO**  
Laboratory In-charge

**Checked by: GLOMAR G. RACINES**  
Administrative Aide

**Noted by:**  
**ELSA C. PELICANO**  
Administrative Officer V-Supply Officer III



## ENVIRONMENTAL SCIENCE LABORATORY ORY INVENTORY (as of April 30, 2021)

The laboratory materials and equipment are listed based on CMO 35 Guidelines

### A. Basic Glasswares

Quantity	Name of glasswares	Description / Capacity	Remarks
1	Erlenmeyer Flask	1000 ml	Functional and Available
7	Erlenmeyer Flask	500 ml	Functional and Available
12	Erlenmeyer Flask	300 ml	Functional and Available
58	Erlenmeyer Flask	250 ml	Functional and Available
14	Erlenmeyer Flask	125 ml	Functional and Available
1	Graduated Cylinder	1000 ml	Functional and Available
3	Graduated Cylinder	500 ml	Functional and Available
13	Graduated Cylinder	250 ml	Functional and Available
14	Graduated Cylinder	100 ml	Functional and Available
15	Graduated Cylinder	50 ml	Functional and Available
18	Graduated Cylinder	25 ml	Functional and Available
15	Graduated Cylinder	10 ml	Functional and Available
1	Beaker	1500 ml	Functional and Available
11	Beaker	1000 ml	Functional and Available
24	Beaker	600 ml	Functional and Available
11	Beaker	500 ml	Functional and Available
44	Beaker	400 ml	Functional and Available
48	Beaker	250 ml	Functional and Available
1	Beaker	150 ml	Functional and Available
20	Beaker	100 ml	Functional and Available
12	Beaker	50ml	Functional and Available
29	Watch Glass	Large	Functional and Available
8	Watch Glass	Medium	Functional and Available
7	Watch Glass	Small	Functional and Available
10	Petri dish		Functional and Available
46	Crucible		Functional and Available
51	Crucible cover		Functional and Available



"For Nation's Greater Heights"

Quantity	Name of glasswares	Description / Capacity	Remarks
47	Evaporating dish	small	Functional and available
14	Evaporating dish	Medium	Functional and Available
1	Evaporating dish	Big	Functional and Available
39	Funnel		Functional and Available
10	Stirring rod		Functional and Available
13	Reagent Bottles		Functional and Available
5	Separatory funnel		Functional and Available
7	Retort flask	Round flask w/ long tube	Functional and Available
10	Volumetric Flask	500 ml	Functional and Available
13	Volumetric Flask	250 ml	Functional and Available
1	Volumetric Flask	200 ml	Functional and Available
6	Volumetric Flask	100 ml	Functional and Available
9	Volumetric Flask	50 ml	Functional and Available
5	Volumetric Flask	25 ml	Functional and Available
20	Culture tubes	With cover	Functional and Available
10	Culture tubes	Without cover	Functional and Available
38	Centrifuge tube		Functional and Available
50	Test tubes	5 ml	Functional and Available
25	Test tubes	10 ml	Functional and Available
1299	Test tubes	25 ml	Functional and Available
50	Test tubes	50 ml	Functional and Available
13	Florence flask	500 ml	Functional and Available
5	Florence flask	250 ml	Functional and Available
5	Florence flask	125 ml	Functional and Available
1	Base buret	50 ml	Functional and Available
9	Base buret	25 ml	Functional and available
9	Weighing bottles		Functional and available
3	Round bottom flask	500 ml	Functional and available





Quantity	Name of glassware	Description/Capacity	Functional and Available
2	Acid Burette	50 ml	Functional and available
5	Acid Burette	25 ml	Functional and Available
12	Pipette	10 ml	Functional and Available
17	Iron ring		Functional and Available
22	Tripod		Functional and Available
48	Test tube holder		Functional and Available
28	Test tube brush		Functional and Available
28	Tongs		Functional and Available
3	Burette holder		Functional and Available
13	Iron clamp		Functional and Available
21	Iron stand		Functional and Available
1	Hot plate		Functional and Available
1	Stirring rod		Functional and Available
2	Electric stove		Functional and Available
13	Test tube rack	Wooden	Functional and Available
7	Test tube rack	Metal	Functional and Available
1	Centrifuge Machine		Functional and Available
45	Rubber Stopper	Big	Functional and Available
40	Rubber Stopper	Small	Functional and Available
21	Double beam balance		Functional and Available
5	Triple beam		Functional and Available
7	Double pan weighing scale		Functional and Available
1	Desiccator		Functional and Available
22	Mortar		Functional and Available
17	Pestle		Functional and Available
10	Bunsen burner		Functional and Available
58	Wire gauze		Functional and Available



**A. BASIC EQUIPMENTS**

Quantity	Name of equipment	Description	Remarks
1 set	Water quality checker with probes	Onitron brand (bench type)	Functional and Available
1 unit	Oven		Functional and Available
1 unit	Furnace		Functional and Available
2 units	UV VIS		Functional and Available
1 unit	Vacuum filter		Functional and Available
1	Refractometer		Functional and Available
2	Toploading balance		Functional and available
1	Multi parameter Water Quality Checker	Hanna Brand	Functional and Available
1	Multi parameter Water Quality Checker-	Horiba brand	Functional and Available (new ppurchase)
7	Phytometer		Functional and Available
2	Desiccator		Functional and Available
1	Atomic Absorption Spectrophotometer	With lamps	Functional and Available
	Fumehood		Functional and Available
1	Emergency Safety Drench Shower and Eye/Face Wash		To be installed
1	Transect tape		
1	Soil corer		

C. Smart televisions are installed in the laboratory room .

Prepared by:

**ROSALIA L. HUGO**  
 Laboratory In-charge

**RICKY T. OSORIO**  
 Laboratory In-charge

**Checked by: GLOMAR G. RACINES**  
 Administrative Aide

**Noted by:**  
**ELSA C. PELICANO**  
 Administrative Officer V-Supply Officer III



**New Purchases(as of February 21, 2021) of the school for Environmental Science Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
4	Student Laboratory Table-open table type drawer in cup sink	<p>Specification</p> <p>Rectangular - open selves - 3.1 m x 1,0m x 0.9m</p> <p>Polyester resin w/ PTFE resin coated anti static and chemical resistance countertop black</p> <p>Complete gas outlet, water outlet in spicket faucet and electrical outlet</p> <p>Made of heavy gauge tubular powder coated steel framestand Features:</p> <p>12 open type drawer, (4) cup sink on top in water spicket and (4) ceramic gas Spicket and electrical outlet and all heavy gauge stainless pipe for gas</p> <p>All heavy gauge stainless pipe for gas</p> <p>Framestand was made of heavy gauge tubular steel powder coated finished</p> <p>Dimension 3.1 m x 1.0m x 0.90m</p>
1	Teacher's Demonstration Table	<p>Polyster resin gel-keto acid resitant counter top black 1 3/4 thick</p> <p>Built in cabinet and drawers, complete w/ gas, water and converter/charger</p>
1	BOD Incubator	<p>Capacity: 125 Liters</p> <p>Temperature controller: Digital PID Controller</p> <p>Temperature range: -5 °C to 70°C</p> <p>Display: LED Display</p> <p>Material: Stainless Steel Power: 220V, 60Hz</p> <p>Dimension:Inside 500x500x500 mm</p>
1	Desiccators ,	<ul style="list-style-type: none"> <li>• Interior volume: 0.74 cu ft; holds: 20 cans \</li> <li>• Damp- and dirt-free storage r-</li> <li>• Cabinets fabricated with co-polyester plastic that resists stains,vchemicals and fine cracks '</li> <li>• Co-polyester material, UV light r- T Door-mounted dial hygrometer permits convenient tracking of RH; built-in carrying handles offer convenient portability</li> </ul>
2	Digital Air Thermometer	<p>Rechargeable Indoor Outdoor Thermometer .</p> <p>Wireless Weather Station Digital Hygrometer</p> <p>.Humidity Gauge with Cold-Resistant and Waterproof Temperature Monitor, 330ft/100m Range</p>
2	Digital Soil Thermometer	<ol style="list-style-type: none"> <li>1. pH range: 3-8</li> <li>2. Moisture range: 10%-80% (1-8 on the reading scale)</li> <li>3. Uncertainty: ± 0.3 (pH), ± 1.0% RDG (moisture) 80% (1-8 on the reading scale)</li> </ol> <p>Uncertainty: ± 0.3 (dH). ± 1.0% RDG (moisture) -----\ ---- Anti-Chemical / with Filters</p>





**New Purchases of the school for Environmental Science Laboratory which are available and can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Light Meter	Backlight LCD Range in a unit mW/cm <sup>2</sup> or uW/cm <sup>2</sup> and automatic measuring Measuring range: 0-2000mW/cm <sup>2</sup> Response wavelength:320nm-400nm;),Ap=365nm Wide range / Wavelength:320nm-400nm Probe size: 45mmx12.5mm(DxH) Instrument size:130mmx70mmx28mm(LxWxH) Suit for intensity measurement of light curing process
3	Micropipette kit	4 Pipettors (0.5-1 Opl 10-100pl 100-1000pl 1000-5000pl); Pipette Stand; 3 Racks of 96 Sterile Pipette Tips
5	Pen pH meter	Digital pH Meter - Water Qualitf Bter, 0.01 High Accuracy and ATC, x6 Calibration Packs - pre calibrated pH Meter for Water, Pool, Soil, Hydroponics, Aquarium, Beer Brewing, Wine, Food. Urine, lab
3	Refractometer	Salinity Refractometer for Aquariums, Marine Monitoring, Saltwater Testing " With Built-in ATC compensation Range (Automatic Temperature Compensation) from 10°C to 30°C. Measuring range: Salinity-0-100%, 0.1% Specific Gravity: 1.000-1.070 sg
2	Sieve set	• (5 pcs, 20 cm) Brass sieve 20 micron sieve • ( 5 pcs, 30 cm) Brass sieve 30 micron sieve j (5 pcs, 50 cm) Brass sieve 50 micron sieve
2	Sling Psychrometer	Slide rule construction quickly converts temperature to relative humidity Constructed out of hard plastic Thin bulb design provides fast thermal response Non-mercury red spirit filled thermometers Measures 1" diameter by 7-1/2" length
1	Vacuum Pump filter	Lab Set .Laboratory equipments Magnetic Stirrer, Lab Filtration Vacuum Pump, 0.22um Filter. 1000ml Lab Flask and 500ml Storage Bottle
2	Wind meter	Wind Meter / Digital Anemometer
	Mist Net Mesh	Specification: size: 30/32mm (1 1/4") x 70/2 or 110/2 denier/ply Height: 2.6 to 3m Length: 9 to 12 m Material: Polyester or Nylon



**New Purchases (as of February 21, 2021) of the school for Environmental Science Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/ Materials	Description
2	Spectrophotometer	.Specification: 2.5 inches high-definition LCD Display Imported Tungsten Lamp and Deuterium Lamp s Standard Curve, Quick Establishing Easy Data Output, USB/Parallel Port Multiple results readout, Large storage capacity Automatic wavelength setting Optical System: Single beamm, Grating 1200 Wavelength: 325-1000mm Spectral: 2nm Wavelength: ±2 nm Wavelength: 0.5nm Wavelength: Auto Wavelength: 0.1nm Photometric: +0.5%T *Photometric:
5	Dissecting Microscope	Specification: Compound microscope Lab LED Binocular Microscope w/ Double Layer Mechanical Stage w Blank Slides Covers and Lens cleaning paper; Leica software: connected camera: cord
3	Digital Stereo Zoom Microscope 10x-40x	Specification: Paired 10x widefield 45° inclined eyepieces Dual diopter adjustments and interpupillary adjustment from 55mm to 75mm. t fully adjustable 1x-4x zoom objective provides parcentered, parfocalled images from 10 to 40x and everv magnification in between. All lenses are achromatic, color-corrected. Field of view ranges from 20mm at 10x to 5mm at 40x. Heavy-duty rack and pinion focusing with large dual focusing knobs. Slip clutch prevents damage to focus mechanism. Tension adjustment eliminates focus "drift". Post-mourrt design provides ultimate flexibility and allows specimens to be placed on or off staqe. Working distance is 79mm and maximum specimen height is 93mm. 80mm reversible black/white contrast stage plate; 80mm translucent plate; mounted stage clips. Built-in blue filter for bottom light is located under the stage plate. Jop light is 12-volt, 15-watt halogen, bi-pin with directional beam and rheostat control. Replacement bulb available. S> Bottom light is 12-volt, 10-watt halogen bi-pin. Replacement bulb available. ' Base mounted light controls permit



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		<p>choice of top only, bottom only, or dual illumination.          Large, full-size professional frame with heavy-duty post mount for maximum flexibility.          Built-in DC power converter operates at 100-220 volt 50/60Hz current          Camera and Software 1/2 inch CMOS imaging chip 2048x1536 pixel maximum resolution (3.0 megapixel)          Video is 30 frames/second at 640x480 pixels, 15 frames/second at 1280x1024 pixels. 11 frames/second at 2048x1536 pixels lux minimum illumination;          Minimum PC and Mac computer compatibility requirements: 1Ghz processor, 512 MB RAM, 128 MB video card, 1 GB hard drive space, Windows XP or Mac OSX or above. USB 2.0 port, and CD-ROM drive</p>
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*Hugo*

Prepared by:

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 Laboratory In-charge

**RICKY T. OSORIO**  
 Laboratory In-charge

**Checked by: GLOMAR G. RACINES**  
 Administrative Aide

**Noted by:**  
**ELSA C. PELICANO**  
 Administrative Officer V-Supply Officer III



## PHYSICS LABORATORY INVENTORY (as of April 30, 2021)

### BASIC EQUIPMENT

Quantity	Names of Materials	Description	Remarks
14	Ruler		Functional and Available
25	Meter stick		Functional and Available
1	Force Table		Functional and Available
1	Conductivity Meter		Functional and Available
2	Calorimeter		Functional and Available
4	Digital Multi meters		Functional and Available
6	Multi Tester		Functional and Available
2	Electroscope Pith ball		Functional and Available
2	Galvanometer		Functional and Available
2	Panel Meter		Functional and Available
8	Compass		Functional and Available
2	Flashlight		Functional and Available
11( boxes)	Bar Magnet		Functional and Available
1	Steam engine section		Functional and Available
3	Concave Mirror		Functional and Available
3	Convex Mirror		Functional and Available
11 ( boxes )	Weights		Functional and Available
4	GPS		Functional and Available
4	Pulley		Functional and Available
1	Electroscopes sheet metal		Functional and Available
5	Vernier Caliper		Functional and Available
1 box	Slides and matter, change and energy		Functional and Available
1 ( box )	Double concave lens		Functional and Available
4	Magnet horseshoe		Functional and Available
1	Wave Apparatus		Functional and Available
5	Vernier Caliper Set of weights		Functional and Available
1	Weighing scale w/ wooden box		Functional and Available
2	Dynamic Cart		Functional and Available
2	Garmin		Functional and Available
5	Spring balance		Functional and Available





**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
4	Student Laboratory Table-open table type drawer in cup sink	Specification: Rectangular - open selves - 3.1m x 1.0m x 0.9h y Polyester resin w/ PTFE resin coated anti static (black or beige) Mounted electrical outlet with shutter (220V) with open type drawers. Made of heavy gauge tubular powder coated steel framestand Features: 10 to 12 open sieves Fixtures: (4) mounted electrical outlet Framestand was made of heavy gauge tubular steel powder coated finished
1	Slide Preparataion Tables fo r Physics	Specification: ----- r s Rectangular epoxy resin Gel kote-polyester resin "ACID RESISTANT" countertop black) s Base: Wooden Cabinet and Pegboard - Features:6-open type drawer ,. r Fixtures: 6 - Electrical outlet 220V
4	Force Table	Specification: Force Table Support Bar Bracket Mass and Hanger (Set 4) Center Pole Built-in Scale Force Table Pulley (4) Concurrent force string Non-concurrent force string Plug and Steel ball (6) Non-concurrent Disk
2	A ir Track	Specification: Air Track 1.5 m Low-volume Pump Cart (Big) Weight 10g; (4) Movable Connector Accessory Set; Photogate Photogate Electronic Timer
1	Free Fall (steel ball)	Specification: Free Fall Base; Free Fall Braket; Electromagnet; Target; Photogate Electronic Timer; Photogate; Immovable Holder; Steel Ball
1	Projectile Motion	Specification: Base , 1-CannonBracket, 1-Cannon 1-Steel Ball 2-C -Shaped Clip * 1-Cannon Rod , 1-Free Fall Set , 1-Laser Set , 1-Digital Photogate Timing System .1- Shooting Target



**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	B allistic Pendulum	Specification: Digital Photogate Timing System Projectile Launcher Photogate Projectile Launcher Set; Includes; Angle Indicator Collision Object Sponge inelastic Collision Alumnum Board Elastic Collision S'Weight 20g x 2; 2-D Collision Set includes: L-shaped Bracket; Ball Photogate Set, Fixed Bracket Photogate Interval Fixer
1	Newton's Law of Motion	Specification: Law of Inertia Experiment (Motion) Law of Inertia Experiment (Motionless) Linear Motion Experiment • Uniformly Accelerated Motion Experiment Action and Reaction Experiment Elastic Collision Experiment Jnelastic Collision Experiment on Simple harmonic Experiment
1	Centripetal Force Apparatus	Specification: 1-Centripetal Force Base 1-Aluminum Platform Scale J-Speed Regulator 1-DC Power Supply (9V) 1-AV Connection Cable s 1-Level Indicator .1-Movable Connector 8-Pulley 1-L-shaped Weight Holder 25g; 1-Weight 10g 1-Rotating Body 100g . 1-DC Motor .1-Drive Belt 1-Rotating Body Hanger 1-Centripetal Force Indicator 2-Adjustable Feet 1-Balance Weight . 1-60-Grid Fence 1-Photogate 1-Photogate Elecronic Timer



**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Hooke's Law Apparatus	Specification: (1) Experimental base and supporting jacket (2) Hook Connector; (1) Spring set: 0.5N, 1N, 2N, 3N, 5N; (1) Weight 250g; s' (1) Movable Bracket Connetor; (2) L-shaped Bracket; (2) Simple Harmonic Motion-Weight Hold; (1) Simple Harmonic Motion - Fixer
1	Sonometer system	Specification: 1-Sonometer Base 1-Tension Adjuster 1-Tension Adjustable Rod 2-Adjustable Holder 2-Adjustable Coil Set 1-Iron Wire 1-Weight 1-Digital Frequency Generator Amplifier s' Frequency range: 0.01 Hz to 9999.9 Hz; s' Precesion: 0.01Hz; Amplitude: 1 to 99% ' Power: 110V/220V; USB Port XI; Stroboscope PorX4; 5W Illumination; 210 lumen
1	Thermal Conductivity Apparatus	Specification: 1-Experimental Base 1 -Measurable Object Fixer 3-Measurable Object 3-Icing Container A -Beaker 1-Steam Heating Pot 1-Silica Gel Tube
1	Thermal Expansion Apparatus,	Specification: ' .1-Thermal Expansion Base 1 -Length Gauge 3-Metal to be measure 4-Fixer 1-Petri Dish 1-Silica Gel Tube; 1-Steam Heating Pot



**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Wheatstone Bridge Experiment	Specification: 1-Mounted Resistance Coils 1-Resistance Box 1-Galvanometer $\pm 50$ micro A 1-Probe 1-Electronic Bridge 6-Connection Line 1-Power Supply (DC 1.5V)
1	Electricity Demonstration Kit	Specification: 2-Bread Board (360mm x 240mm x 20mm) 1-Circuit Switch with storage box 2-Battery Holder (AA with storage box) 1-DC External End with storage box 5-Voltmeter (0 to 10V) 3-Current Meter (0 to 1000mA) 1-Galvanometer (-50micro A to +50 micro A) 10-1-Shaped Wire w / storage box 42-T-shaped Wire w/ storage box J2-L-shaped Wire w / storage box 1-slide Wire Bridge (360mm x 100mm x 40mm) 1-Adjustable Resistance x 100 ohms 2-Adjustable Resistance x 10 ohms 1-Adjustable Resistance x 1 ohms A -measured Resistance a f copper, (0.28mm, 20m)  1-measured Resistance b [copper, (0.28mm, 10m)  , 1-measured Resistance c [copper, (0.14mm, 20m)  – 1-measured Resistance d [copper, (0.14mm, 10m)  2-Transformer (12V DC); 1-Storage Box (740mm x 540mm x 160mm, $\pm 20$ mm) 1- Experimental Manual
1	Kirchhoffs Voltage Law	. Specification: 2-Bread board; 2-DC Power Supply 6-Voltmeter 3-Ampere meter and Variable Resistor , 5-I-shaped junction box 2-L-shaped and T-shaped junction box 2-Power terminal junction box





**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Determination of a Current in a Straight Wire	Specification: - A -Aluminum Base A -Angle Disk 1-Copper Wire; 1-Square Coil 1 set .1-Square Coil 5 set 4-Smail Compass 1-Built-in Scale Compass 1-Current Restricted Power Supply
1	Mechanics 1 Laboratory Equipment with Accessories	Specification: Dynamics trolley -1 unit less friction, with tower for the mounting of slotted weight Pull measuring tape: length: 300cm -1 unit Plastic scale pan with suspension 3 inches dia. - 2 units Pointer for lever rod -1 unit Scale with graduation -1 unit Sliding saddle for lever rod -1 unit Lead shot, 50g -1 unit i— Digital Vernier caliper -1 unit Stainless Steel Measuring range: 0.1mm to 150mm/0.001 inch to 6 inches > Beaker (glass), 100ml -1 pc Graduated Cylinder (glass), 100ml -1 pc / > Immersion probe -1 set > Manometer-tube, acrylic, D=8mm, L=200mm - 2 units y > Acrylic tube, D=8mm, L=80mm 1 unit Acrylic tube, D=20mm, L=120mm-1 unit Stopper silicone, 12.5/18/1 Tn, 1 hole - 1 unit V f Test tube glass 12x 100mm -1 unit Slotted weight, 50g - 4 units Slotted weight, 10g - 4 units Holder for slotted weights, 10q - 2 units Balance weights -1 set 7 pcs in 1 set: i '1-200gms 2-100gms 1-50gms 2-20gms 1-10gms . Support rod, round, L=500mm, D=10mm - 2 units Acrylic tube, D=8mm, L=80mm Hollow block 50x20x20mm -1 unit Aluminum block 100gms -1 unit Block iron with hook 100gms -1 unit Block iron with hook 50gms -1 unit Coil spring 3 N/m, D=35mm - i unit Coil spring 20 N/m, D=12mm -1 unit



**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Mechanics 1 Laboratory Equipment with Accessories	Lever rod for balance, L=420mm -1 unit Flat spring steel, 0.4mm, L=165mm -1 pc Capillary tubes (Haematocrit tube) 100 pcs/tube Single Pulleys, plastic - 4 units Tubing plastics, transparent, 100cm -1 pc Tubing plastics, transparent, 16cm -1 pc Dynamometer, transparent 2 N - 2 pcs Note: a. All modules must include the appropriate accessories and rail stand b. To include storage box with cover for every line item, manual/kit c. All Items under the lot must be compatible with each other. d. All equipment/materials must be laboratory grade.
1	Dynamics 1 Laboratory Equipm ent with Accessories\	Consist of at least the following: Dynamics trolley - 2 units less friction, with tower for the mounting of , slotted weight Trolley with variable speed -1 unit battery powered (9V) with switch Ahead/Off/Back Sockets Slotted weight, 50g - 4 pcs : Slotted weight, 10g - 3 pcs Holder for slotted weights, 10q -1 pc. Spring bumper - 2 pcs Pulley with very low friction -1 unit Cart body for trolley - 2 units Flat Spring -1 unit Support rod, round, L=60mm, D=10mm -1 unit Pull measuring tape, L=300cm -1 unit Track and optical bench, 2 x 50cm -1 unit Hail bond, universal -1 unit Note: a. All modules must include the appropriate accessories and rail stand b. To include storage box with cover for every line item, manual/kit and trainingq for the end users c. All Items under the lot must be compatible with each other. d. All equipment/materials must be laboratory grade



**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Circular Motion Laboratory Equipment with Accessories	<p>Consist of at least the following:            1-Centrifugal hoops "compact" -1 unit            Watt's governor "compact" -1 unit            Foucault's pendulum "compact" -1 unit            Rotating disk "compact" -1 unit            Locking Screw M3, small -1 unit            Steel balls 1/2" (12.7mm) - 2 sets            Rotational dynamics paradox/accelerometer "compact" -1 unit            Combined cuvette and pending balls            Drive engine "compact" -1 set            MBC pivot bearing with transmission ratio            Magnetic base for drive pulley "compact"            Drive pulley "compact", D=100mm Drive belt "compact" Assembly platform for MBCs (Magnetic Base Compact            Note:            a. All modules must include the appropriate accessories and rail stand            b. To include storage box with cover for every line item, manual/kit and training for the end users            c. All Items under the lot must be compatible with each other.            d. All equipment/materials must be laboratory grade</p>
1	Centrifugal Force	<p>Consist of at least the following:            Centripetal force apparatus with motor - 1 unit            Support base, L=250mm, solid aluminum H-base, 250 x 200 mm, with rubber feet, jackscrews, table clamps, counting gate - 1 set Sliding saddle, H-40mm - 1 unit Support rod, round, L=250mm, D=10mm            Slider with gate for centripetal force apparatus - 1 unit            Slotted weight, 50g - 2 pcs Slotted weight, 10g - 4 pcs Dynamometer 2 N, transparent, - Range: at least 2 N, Resolution: at least 0.02 N - 1 unit Handheld stopwatch, digital 1/100 s - 1 unit            Note:            a. All modules must include the appropriate accessories and rail stand            b. To include storage box with cover for every line item, manual/kit and training for the end users            c. All Items under the lot must be compatible with each other.            d. All equipment/materials must be laboratory grade</p>



**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Circular Motion Laboratory Equipm ent w ith Accessories	<p>Consist of at least the following:</p> <p>Graduated cylinder, plastic 100ml - 1 pc</p> <p>Bodies for heat-radiation, (White and Black) - 1 set</p> <p>Bimetallic strip - 1 unit</p> <p>Wax crayon - 1 pc</p> <p>Tubing plastics, transparent, 100cm - 2 units</p> <p>Manometer-tube, acrylic - 2 units r D=8 mm, L=200 mm - - Needle Steel, right angles - 1 unit</p> <p>Spirals for heat radiation - 1 set</p> <p>Holder for dynamometers and test tubes - 1 unit</p> <p>Wax straps - 1 unit</p> <p>Glass tube straight, l+80 mm - 1 unit</p> <p>Support rings - 1 set -D= 102mm;</p> <p>bracket for wire gauze -D = 62mm:</p> <p>bracket for the beaker r D = 35mm:</p> <p>bracket for Erlenmeyer flask</p> <p>Wire gauze 150x150 mm</p> <p>1 pc Beaker glass 250ml</p> <p>1 pc s Made of borosilicate glass, 100ml - 1 pc</p> <p>Erlenmeyer flask glass, 100ml - 1 pc.</p> <p>Tube for heat expansion, alu - 1 pc .</p> <p>Tube for heat expansion, iron - 1 pc</p> <p>Pointer with plug - 2 units</p> <p>Slider with setting for heat expansion - 1 unit</p> <p>Slider for pointers for heat expansion - 1 unit</p> <p>Test tube, glass 16 x 160 mm, - 2 pcs</p> <p>Aluminum block -1 unit</p> <p>Block iron with hook, small -1 unit</p> <p>Insulation flask with lid -1 unit</p> <p>with 2 beakers, volumes: 150 and 700ml</p> <p>insulating beaker . transparent cover</p> <p>Support rod, round, L=500 mm, D=10mm</p> <p>Thermometer (Alcohol) - 2 pcs , Graduate .</p> <p>Partition 1 °C - *--10....+110°C</p> <p>Thermometer -1 pc - not graduated</p> <p>Note:</p> <p>a. All modules must include the appropriate accessories and rail stand</p> <p>b. To include storage box with cover for every line item, manual/kit and training for the end users</p> <p>c. All Items under the lot must be compatible with each other.</p> <p>d. All equipment/materials must be laboratory grade</p>





**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Magnetism	<p>Consist of at least the following:</p> <p>Bar magnet - 2 units            AlNiCo - D=10 mm, L=50 mm - red / green varnished 14.2) Pocket compass -1 unit y 14.3)            Earth-model -1 unit            D=56 mm            With inscription and shaft            14.4) Magnetic field sensor, big - 1 unit .            14.5) Plug pin with needle - 1 unit .            14.6) Supporting plate for bar magnets - 2 units .            14.7) Threaded bolt steel - 4 units            L=40 mm - Can be magnetized - Inter-screwable steel rods Insulating block with socket - 1 unit            Magnetic field plate "compact" - 1 unit            Dimension: approx. 155 x 90 x 10 mm            Pole lamination, 60 x 25 mm - 2 units            Test tube, plastic, 16 x 150 mm, - 1 pc            Magnetic field sheet, 100 x 70 mm - 1 unit            Magnetic rubber bar, 100 x 25 mm - 1 unit            Soft iron ring - 1 unit</p> <p>Note:</p> <p>a. All modules must include the appropriate accessories and rail stand            b. To include storage box with cover for every line item, manual/kit and training for the end users            c. All Items under the lot must be compatible with each other.            d. All equipment/materials must be laboratory grade</p>
1	Optics 1	<p>Consist of at least the following:</p> <p>Light source - 1 unit            Halogen 12 V / 20 W Prism-body acrylic, trapezoid - 1 unit            Lens-body acrylic, semicircle - 1 unit            Prism-body acrylic, right angle - 1 unit            Lens-body acrylic, plano-convex - 2 units            Lens-body acrylic, plano-concave - 1 unit            Optical disk, with graduation White Screen - 1 unit            Mirror plane - 1 unit            Mirror concave/convex, adjustable - 1 unit            Shutter with 1 and 2 slits - 1 unit            Shutter with 3 and 5 slits - 1 unit            Plastic tank - 1 unit            transparent - 65 x 47 mm - with white base and cover</p>



**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	Optics 2	<p>Consist of at least the following:</p> <p>Lens glass, in holder, fl = +50 mm - 1 unit            Lens glass, in holder, fl = 100 mm - 1 unit            Lens glass, in holder, fl = +300 mm - 1 unit            Lens glass, in holder, fl = +100 mm - 1 unit            Concave mirror in mount - 1 unit            Concave mirror in mount - 1 unit            Convex mirror in mount -1 unit            Holder for lenses and apertures - 3 units            Holder for slides and apertures, slip-on type - 2 units            Round apertures - 1 unit            Set of 3, D= 1, 3 and 8 mm Slide with "L" - 1 unit            Slide with 4 drawings - 1 unit            Slide with 1 slit - 1 unit            Earth-moon model - 1 unit            Axle shaft buckled in 23° D = 56 mm            Screen translucent, in holder - 1 unit            Diode lamps - 1 unit –            With supply modules 4.5... 15 V DC as well as connecting cables            Colour filter set, subtractive - 1 unit            Sliding saddle for optical bench - 3 units            Sliding saddle with setscrew - 1 unit            Prism, equilateral, glass, S=25 mm - 1 unit            Prism, table - 1 unit</p> <p>Note:</p> <p>a. All modules must include the appropriate accessories and rail stand            b. To include storage box with cover for every line item, manual/kit and training for the end users            c. All Items under the lot must be compatible with each other.            d. All equipment/materials must be laboratory grade</p>
1	E lectrostatics	<p>Consist of at least the following:</p> <p>Electroscope - 2 units            Aluminum profile with 4-mm-plug L= 140mm            Less friction bearing a. Acrylic bar -1 units            150x10mm drill holes for the he alu-rod D= 4mm            Plastic bar, 150x10 mm -1 unit            Plastic bar, 150x10 mm with drilling -1 unit            Polyethylene rubber pad -1 uni</p>



**New Purchases (as of February 21,2021)of the school for Physics Laboratory which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/Materials	Description
1	E lectrostatics	Aluminum bar, 150x4 mm -1 unit Acrylic bar, with drilling -1 units Fluorescent lamp -1 unit Insulating block with socket - 2 units Plug pin with needle -1 unit Aluminum-stripe Simple Electroscope - 2 units Faraday beaker -1 unit Note: a. All modules must include the appropriate accessories and rail stand b. To include storage box with cover for every line item, manual/kit and training for the end users c. All Items under the lot must be compatible with each other. d. All equipment/materials must be laboratory grade

*Hugo*

Prepared by:

**ROSALIA L. HUGO**  
 Laboratory In-charge

**RICKY T. OSORIO**  
 Laboratory In-charge

**Checked by: GLOMAR G. RACINES**  
 Administrative Aide

**Noted by:**  
**ELSA C. PELICANO**  
 Administrative Officer V-Supply Officer III



CHEMICALS AVAILABLE IN THE LABORATORY (as of April 30,2021)

Chemicals	Supply available	Chemicals	Supply Available
Sodium carbonate AR	500 g	Sucrose	250 g
Sodium carbonate (Technical grade)	175 g	Sulfur powder (Technical grade)	254 g
NaOH pellets	350 g	Sulfuric acid AR	2 gallons
Nal	250 g	Tin granules AR	500 g
NaNO3 AR	300 g	Xylene	1 liter
Sodium Oxalate	500 g	Zinc oxide (Tech. grade)	1250 g
Sodium sulfate (anhydrous)	500 g	Zinc sulfate	500 g
Sodium thiosulfate	250 g	Acetone	
Starch	300 g	Ascorbic acid	
SrCl2	300 g	Ammonium molybdate tetrahydrate	
Strontium Nitrate	200 g	Antimony potassium tartrate	
EDTA		Borax	
KHP-potassium dihydrogen phosphate		sulfanilamide	
Potassium nitrate		Ammonium chloride	
Hydrochloric acid		Nitric acid	
Sodium thiosulfate		Sulfuric acid	
N-1 naphthyl ethylene diamine		Manganous sulfate	
Potassium iodide		Ammonium hydroxide	
Sulfanilamide		Sulfur powder	
Iron filings		NaCl	
Cadmium sulfate		Agar	
silica		Formalin	
Tartaric acid		Sodium sulfite	
Potassium hydroxide		Silver nitrate	
Calcium carbonate			

**Indicators:**

Phenolphthalein  
 Methyl orange  
 Methylene blue  
 EBT  
 Bromthymol blue  
 Methyl red

Prepared by

ROSALIA L. HUGO  
 Laboratory In charge





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**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
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*"For Nation's Greater Heights"*





**CHEMISTRY LABORATORY INVENTORY (as of April 30, 2021)**

The laboratory materials and equipment are arranged based on CMO 35 Guidelines

**A. GLASSWARES**

Quantity	Name of glasswares	Description / Capacity	Remarks
1	Erlenmeyer Flask	1000 ml	Functional and Available
7	Erlenmeyer Flask	500 ml	Functional and Available
12	Erlenmeyer Flask	300 ml	Functional and Available
58	Erlenmeyer Flask	250 ml	Functional and Available
14	Erlenmeyer Flask	125 ml	Functional and Available
1	Graduated Cylinder	1000 ml	Functional and Available
3	Graduated Cylinder	500 ml	Functional and Available
13	Graduated Cylinder	250 ml	Functional and Available
14	Graduated Cylinder	100 ml	Functional and Available
15	Graduated Cylinder	50 ml	Functional and Available
18	Graduated Cylinder	25 ml	Functional and Available
15	Graduated Cylinder	10 ml	Functional and Available
1	Beaker	1500 ml	Functional and Available
11	Beaker	1000 ml	Functional and Available
24	Beaker	600 ml	Functional and Available
11	Beaker	500 ml	Functional and Available
44	Beaker	400 ml	Functional and Available
48	Beaker	250 ml	Functional and Available
1	Beaker	150 ml	Functional and Available
20	Beaker	100 ml	Functional and Available
12	Beaker	50ml	Functional and Available
29	Watch Glass	Large	Functional and Available
8	Watch Glass	Medium	Functional and Available
7	Watch Glass	Small	Functional and Available
10	Petri dish		Functional and Available
46	Crucible		Functional and Available
51	Crucible cover		Functional and Available



Quantity	Name of glasswares	Description / Capacity	Remarks
47	Evaporating dish	small	Functional and available
14	Evaporating dish	Medium	Functional and Available
1	Evaporating dish	Big	Functional and Available
39	Funnel		Functional and Available
10	Stirring rod		Functional and Available
13	Reagent Bottles		Functional and Available
5	Separatory funnel		Functional and Available
7	Retort flask	Round flask w/ long tube	Functional and Available
10	Volumetric Flask	500 ml	Functional and Available
13	Volumetric Flask	250 ml	Functional and Available
1	Volumetric Flask	200 ml	Functional and Available
6	Volumetric Flask	100 ml	Functional and Available
9	Volumetric Flask	50 ml	Functional and Available
5	Volumetric Flask	25 ml	Functional and Available
20	Culture tubes	With cover	Functional and Available
10	Culture tubes	Without cover	Functional and Available
38	Centrifuge tube		Functional and Available
50	Test tubes	5 ml	Functional and Available
25	Test tubes	10 ml	Functional and Available
1299	Test tubes	25 ml	Functional and Available
50	Test tubes	50 ml	Functional and Available
13	Florence flask	500 ml	Functional and Available
5	Florence flask	250 ml	Functional and Available
5	Florence flask	125 ml	Functional and Available
1	Base buret	50 ml	Functional and Available
9	Base buret	25 ml	Functional and available
9	Weighing bottles		Functional and available
3	Round bottom flask	500 ml	Functional and available





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Quantity	Name of glassware	Description/Capacity	Functional and Available
2	Acid Burette	50 ml	Functional and available
5	Acid Burette	25 ml	Functional and Available
12	Pipette	10 ml	Functional and Available
6	Distilling tube		Functional and available



### OTHER EQUIPMENTS

Quantity	Name of equipment	Description	Remarks
17	Iron ring		Functional and Available
22	Tripod		Functional and Available
48	Test tube holder		Functional and Available
28	Test tube brush		Functional and Available
28	Tongs		Functional and Available
3	Burette holder		Functional and Available
13	Iron clamp		Functional and Available
21	Iron stand		Functional and Available
1	Hot plate		Functional and Available
2	Electric stove		Functional and Available
13	Test tube rack	Wooden	Functional and Available
7	Test tube rack	Metal	Functional and Available
1	Centrifuge Machine		Functional and Available
45	Rubber Stopper	Big	Functional and Available
40	Rubber Stopper	Small	Functional and Available
21	Double beam balance		Functional and Available
5	Triple beam		Functional and Available
7	Double pan weighing scale		Functional and Available
1	Desiccator		Functional and Available
22	Mortar		Functional and Available
17	Pestle		Functional and Available
10	Bunsen burner		Functional and Available
58	Wire gauze		Functional and Available





Quantity	Name of equipment	Description	Remarks
10	Thermometer		Functional and Available
4	pH meter		Functional and Available
4	Rubber bulb		Functional and Available
5	4 in 1 soil survey instruments		Functional and Available
2	Tin Pan		Functional and Available
2	Iron rod		Functional and Available
1 ( box )	Litmus paper		Functional and Available
1 ( box )	Filter paper		Functional and Available
4	Magnet horseshoe		Functional and Available
1	Magnet bar		Functional and Available
2	Spatula		Functional and Available
4	Long Iron Clamp		Functional and Available
1	Iron Clamp (red)		Functional and Available
5	Tripod Aluminum Stand		Functional and Available
5	Tripod (black)		Functional and Available
3	Tripod (Triangle)		Functional and Available
4	Tripod (round)		Functional and Available



**B. BASIC EQUIPMENTS**


Quantity	Name of equipment	Description	Remarks
1 set	Water quality checker with probes	Onitron brand (bench type)	Functional and Available
1 unit	Oven		Functional and Available
1 unit	Furnace		Functional and Available
2 units	UV VIS		Functional and Available
1 unit	Vacuum filter		Functional and Available
1	Refractometer		Functional and Available
2	Toploading balance		Functional and available
1	Multi parameter Water Quality Checker	Hanna Brand	Functional and Available
2	Multi parameter Water Quality Checker-	Horiba brand	Functional and Available (new purchase)
7	Phytometer		Functional and Available
2	Desiccator		Functional and Available
1	Atomic Absorption Spectrophotometer	With lamps	Functional and Available
	Fumehood		Functional and Available
1	Emergency Safety Drench Shower and Eye/Face Wash		To be installed

C. Atomic and molecular models are available

D. Smart televisions are installed in the laboratory rooms .

Prepared by:

  
**ROSALIA L. HUGO**  
 Laboratory In-charge

  
**RICKY T. OSORIO**  
 Laboratory In-charge

Checked by:   
**GLOMAR G. RACINES**  
 Administrative Aide

Noted by:   
**ELSA C. PELICANO**  
 Administrative Officer V-Supply Officer III






**CHEMICALS AVAILABLE IN THE LABORATORY (as of April 30, 2021)**

Chemicals	Supply available	Chemicals	Supply Available
Sodium carbonate AR	500 g	Sucrose	250 g
Sodium carbonate (Technical grade)	175 g	Sulfur powder (Technical grade)	254 g
NaOH pellets	350 g	Sulfuric acid AR	2 gallons
Nal	250 g	Tin granules AR	500 g
NaNO <sub>3</sub> AR	300 g	Xylene	1 liter
Sodium Oxalate	500 g	Zinc oxide (Tech. grade)	1250 g
Sodium sulfate (anhydrous)	500 g	Zinc sulfate	500 g
Sodium thiosulfate	250 g	Acetone	
Starch	300 g	Ascorbic acid	
SrCl <sub>2</sub>	300 g	Ammonium molybdate tetrahydrate	
Strontium Nitrate	200 g	Antimony potassium tartrate	
EDTA		Borax	
KHP-potassium dihydrogen phosphate		sulfanilamide	
Potassium nitrate		Ammonium chloride	
Hydrochloric acid		Nitric acid	
Sodium thiosulfate		Sulfuric acid	
N-1 naphthyl ethylene diamine		Manganous sulfate	
Potassium iodide		Ammonium hydroxide	
Sulfanilamide		Sulfur powder	
Iron filings		NaCl	
Cadmium sulfate		Agar	
silica		Formalin	
Tartaric acid		Sodium sulfite	
Potassium hydroxide		Silver nitrate	
Calcium carbonate			

**Indicators:**

Phenolphthalein  
 Methyl orange  
 Methylene blue  
 EBT  
 Bromthymol blue  
 Methyl red

Prepared by:

  
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 Laboratory In charge



New Purchases (as of February 21, 2021) of the school for Chemistry Laboratory which can be used for the first semester of AY 2021-2022

Quantity	Equipment/Materials	Description
4	Student Laboratory Table-open table type drawer in cup sink	Specification Rectangular - open selves - 3.1 m x 1.0m x 0.9m Polyester resin w/ PTFE resin coated anti static and chemical resistance countertop black Complete gas outlet, water outlet in spicket faucet and electrical outlet Made of heavy gauge tubular powder coated steel framestand Features: 12 open type drawer, (4) cup sink on top in water spicket and (4) ceramic gas Spicket and electrical outlet and all heavy gauge stainless pipe for gas All heavy gauge stainless pipe for gas Framestand was made of heavy gauge tubular steel powder coated finished Dimension 3.1 m x 1.0m x 0.90m
1	Teacher's Demonstration Table	Polyster resin gel-keto acid resistant counter top black 1 3/4 thick Built in cabinet and drawers, complete w/ gas, water and converter/charger
1	Emergency Safety Drench Shower and Eye/Face Wash	S/S 316 material Head: 10" shower and eye wash waste water reclamation bowl S/S eyewash head in flip top dust cover
1	Analytical Balance	Specification: w p Weighing capacity: 220.00 grams s Minimum display: 0.0001 gram - Repeatability/ Standard deviation): 50.1 mg T— Linearity: ±0.2 mg Response time: 1.5 sec to 3.0 sec Pan size: 91mm diameter Calibration modes: internal (automatic) & external (manual) — Power requirement: 240V y— Output terminal: RS232, USB-Type B r—Body dimension: 213Wx356DX338H(mm) LCD Digital Display c Technical Features: - Engineer weighing technology Built-in, motor-driven automatic calibration S Interface capability with software





**New Purchases (as of February 21, 2021) of the school for Chemistry Laboratory  
 which can be used for the first semester of AY 2021-2022**

Quantity	Equipment/ Materials	Description
1	Acid Resistant Laboratory Fumehood	<p><b>Specification:</b>            UV lamp for Sterilization Motorized front glass window.            Adjustable air speed: 9 levels Alarm when filter working time            3500 hours            With air velocity memory function in case of power failure. Back            side air compensation, to avoid turbulence in work area.            10° slope front ergonomics design, fatigue-free working posture.            Microprocessor control system, LED display shows filter working            time.            Transparent side glass windows maximize light and visibility            inside the cabinet, providing a bright and open working            environment.            External Size:(WxDXH) 1000x840x2150mm Internal Size:            880x730x745 mm            Max opening: 520mm Work surface Height: 750mm Blower:            Built-in centrifugal blower, speed adjustable with 9 levels            Air Velocity: 0.3 to 0.8 m/s            Noise: s60dB            Flourescent Lamp: 18 W UV lamp: Emission of 253.7            nanometers for most efficient decontamination            Front windows: Motorized: 5mm toughened glass, anti-UV            Material: Exterior Body: Cold-rolled steel with anti-bacteria            power coating            Work Table: Chemical resistant phenolic resin.            Power Supply: 220V, 60Hz Consumption: 400W Standard            accssories: Water tap, qas tap, water sink, base stand, UV lamp            Flourescent Lamp,            With one waterproof socket consumption not more then 500W. 4            meter exhaust duct,            Active carbon filter, Foot switch.</p>

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