



**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





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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



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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-Clng 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



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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





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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



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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 <b>Note:</b> 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 Equipment 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, 10g -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 <b>Note:</b> 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





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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>



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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>





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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>

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

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

Prepared by: **ROSALIA L. HUGO**  
Laboratory In-charge

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

Quantity	Equipment/Materials	Description
1	Electrostatics	Aluminum bar, 150x4 mm - 1 unit Acrylic bar, with drilling - 1 unit 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

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