



January 27, 2023

DR. BEATRIZ S. BELONIAS

Vice-President for Academic Affairs
Visayas State University
Visca, Baybay City, Leyte
6521

Dear **Dr. Belonias**:

Greetings!

I would like to inform you that we are now preparing the documents required for applying for the Certificate of Compliance (COPC) for our BS in Applied Physics (BSAP) program.

Related to this, one of the requirements that we need to comply with are the equipment needed for Advanced Physics Laboratory (please see the attached file). Thus, we would like to respectfully request that we be given a budget to purchase some of the needed equipment to satisfy one of the requirements for our COPC application.

In addition, the purchase of the said equipment will also allow our BSAP students to perform advanced physics experiments when taking upper-division physics subjects and further deepen their understanding of physics.

The following is the list of priority equipment that we need to purchase:

1. Hall Effect Experiment;
2. Lasers (Red diode laser and Speed of light diode laser);
3. Student Spectrometer with recommended accessories;
4. e/m Apparatus;
5. Desktop computer sets for the computer laboratory (10 pcs.); and
6. Magnetic Field Sensor

Please see the attached files for your perusal, and we are hoping for your favorable response regarding this matter.

Thank you very much.

Sincerely yours,


REV RHIZZA L. AURE
Head, DPhys

Noted:


MA. THERESA P. LORETO
Dean, CAS

Note:
Ms. submit a PR with complete
spect & cost estimator.
1491.

VISAYAS STATE UNIVERSITY

Visca, Baybay City, Leyte

PURCHASE REQUEST
 Electronics -Laboratory Equipment

Dept./Office: DPhys

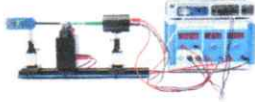

Category:

Funding Source : OVPAA

Project Title:

Advanced Physics Laboratory

ITEM NO.	UNIT		ITEM	UNIT PRICE	TOTAL PRICE	SPECIFICATION	
1	1 UNIT	OS-8525A	Red Diode Laser	35,559.00	35,559.00	Specification: Output Power: <1mW Wavelength: 650nm Power supply: 9V ADAPTER (INCLUDED)	
2	1 UNIT	OS-8475	Speed Light Diode Laser	80,503.00	80,503.00	Specification: Classification: Class II Laser Maximum Output: 532 nm (green) 650 nm (red) Maximum output: <1 mW Divergence: <2 mrd Beam Diameter at aperture: 3 mm	
3	1 UNIT	SP-9268A	STUDENT SPECTROMETER Specification: Resolution: 1 minute arc Telescope: 15x Ramsden eyepiece Collimator: 6mm long slit of adjustable width	238,640.00	238,640.00	Specification: Resolution: 1 minute of arc Telescope: 15x Ramsden eyepiece Collimator: 6mm long slit of adjustable width	
Recommended Accessories:							
4	1 UNIT	SE-9460	Spectral Tube Power Supply and Mount	43,748.00	43,748.00	Power Requirements: 115 OR 220 VAC, 50/60 Hz Safety features: current limiting protection for the emission tube electrically grounded metal casing	
5	1 UNIT	SE-9463	Spectral Tube (Argon)	11,116.00	11,116.00	This Argon Spectral Tube is 26-cm-long and capillary-thin over the middle 10-cm to provide sharp, bright spectra.	
6	1 UNIT	SE-9464	Spectral Tube (Carbon Dioxide)	11,116.00	11,116.00	Carbon Dioxide Spectral Tube is 26-cm-long and capillary-thin over the middle 10-cm to provide sharp, bright spectra.	
7	1 UNIT	SE-9465	Spectral Tube (Krypton)	11,116.00	11,116.00	Krypton Spectral Tube is 26-cm-long and capillary-thin over the middle 10-cm to provide sharp, bright spectra.	
8	1 UNIT	SE-9467	Spectral Tube (Neon)	11,116.00	11,116.00	Neon Spectral Tube is 26-cm-long and capillary-thin over the middle 10-cm to provide sharp, bright spectra.	
9	1 UNIT	SE-9468	Spectral Tube (Water Vapor)	13,447.00	13,447.00	Water Vapor Spectral Tube is 26-cm-long and capillary-thin over the middle 10-cm to provide sharp, bright spectra.	

10	1 SET	EX-5560	Hall Effects Experiment	517,084.00	517,084.00	1x Hall Probe Unit, n-Semiconductor (GaAs) 1x Hall Effect Power Supply 1x U-Core Electromagnetic Coil 1x Track, Length 40 cm 2x Optical Carrier 1x PASPORT 2-Axis Magnetic Field Sensor (PS-2162) 2x Adjustable Post Holder with 9 cm Post 6x Banana Cords 2x Connecting Cables for 550/850 Interface	
11	1 SET	SE-9629	e/m Apparatus	980,918.00	980,918.00	Specification: Helmholtz Coil Radius: 16 cm Number Turns: 130 Maximum Current: 3.5 A Filament Voltage: 6.3 VAC Acceleration Voltage: 0-200V Tube Diameter: 15.5 cm	
12	10		Desktop computer	60,000.00	600,000.00	Processor: Intel Core i5-11500 or higher Motherboard: Intel H510M S2H (6+2 Phases Digital VRM, Anti-sulfur resistors, LGA 1200, Micro-ATX, PCIe 4.0, USB 3.2 Gen) or higher Memory: 16GB (2x8) DDR4 or higher SSD: 500GB NVMe M.2, or higher Optical Drive: DVD-RW Casing: W/ 700W PSU, Monitor: 23" IPS FHD, Operating System: Genuine Windows 10 Home (OEM) Keyboard and mouse combo 500W IC controlled AVR Stereo speakers	
TOTAL				2,014,363.00			

Purposed: for Advanced Physics Laboratory

Recommending Approval:

BEATRIZ S. BELONIAS
Vice President for Academic Affairs

Funds Available:

LOUELLA C. AMPAC
DIRECTOR OF FINANCE

APPROVED BY:

EDGARDO E. TULIN
PRESIDENT, VSU

*Nota: \$200,000 (lab fees share)
bal- clo 2024 budget*