

<div>BATAAN PENINSULA STATE UNIVERSITY</div> <div>Capitol Compound, City of Balanga, Bataan 2100</div>						
OFFICIAL BIDDING FORM						
Item No.	Qty.	Unit	Specifications	Offer (Brand)	Unit Cost	Total Cost
1		Lot	STRUCTURAL PLATFORM			4,999,800.00
			Key Features			
			• Supports any of the Structures experiment modules, providing			
			platform			
			• Rigid design with adjustable feet and a low centre of gravity for			
			stability and accurate results			
			• Includes measuring scales for easy and accurate positioning of			
			parts, changing experiments is as quick and simple as possible			
			• Includes a USB interface hub (with data acquisition Onboard			
			software) for connection to a suitable computer for display and			
			data acquisition			
			• Comes with simulation, display and data acquisition software			
			Laptop			
			Processor: Core i5			
			Ram: 8 Gb			
			Storage: 512Gb SSD			
			Screen: 15 inches			
			OS: windows 11			
			Bending Moments in Beams			
			Features			
			• Fits to the Structures			
			• Unique beam ‘cut’ and load cell system for an accurate			
			measurement of bending moment			
			• Includes multiple loads for many combinations of loads			
			including uniformly distributed loads (UDLs)			
			• Supplied with a storage tray			
			• Works with software			
			• Direct reading of bending moment at the ‘cut’ for quick and			
			simple experiments			
			Learning outcomes			
			• Bending moment at the cut due to a varying single point load			
			• Bending moment at the cut due to a moving single point load			
			• Bending moment at the cut due to a uniformly distributed load			
			• Influence lines and superposition			
			Items Included:			
			• Two supports, holding a beam of 0.8 m length and 0.5 m span			
			• Bending moment load cell built into the centre span of the beam			
			• Cable			
			• Four mass hangers			
			• 50 x 20 g masses			
			• Two UDL bars			
			• Storage tray			
			• Comprehensive user guide			
			Shear Force in Beams			
			Learning outcomes			

			• Shear force at the cut due to a varying single point load			
			• Shear force at the cut due to a moving single point load			
			• Shear force at the cut due to a uniformly distributed load			
			• Influence lines and superposition			
			Items Included:			
			• Two supports, holding a beam of 0.8 m length and			
			0.5 m span			
			• Shear force load cell built into the centre span of the beam.			
			• Cable			
			• Four mass hangers			
			• 50 x 20 g masses			
			• Two UDL bars			
			• Storage tray			
			• Comprehensive user guide			
			Deflection of beam and cantilevers			
			Key Features			
			• Selectable beam fixing conditions, with fully adjustable load and			
			deflection measuring positions for increased experiment range			
			• Includes beams of different material and cross-section for			
			comparison of elastic(Young's) modulus and Second Moment of			
			Area ('I' value)			
			• High-resolution digital deflection indicator for maximum			
			measurement accuracy			
			• Includes Vernier caliper for cross-section measurement			
			• Supplied with a storage tray to keep smaller items safe			
			• Works with software data acquisition			
			Learning outcomes			
			• Beam bending formula and structural 'stiffness'			
			• Deflection due to point loads and UDLs (uniformly distributed			
			loads)			
			• How beam fixings affect deflection of:			
			• Simply supported beams			
			• Fixed or 'encastre' beams			
			• Cantilever beams			
			• Propped cantilever			
			• Shape of a deflected beam			
			• Beam length and deflection			
			• Beam material and deflection — the elastic (Young's) modulus			
			• Beam cross-section and deflection — the Second Moment of			
			Area ('I' value)			
			• Pure bending of a beam			
			• Reciprocal theorem (Maxwell-Betti)			
			Items Included:			
			• Two beam supports with two fixing methods			
			• Support with digital deflection indicator of resolution 0.01 mm			
			• Five different beams of length 850 mm and nominal cross sections:			
			• Aluminium: 19 x 3.2 mm, 19 x 4.8 mm and 25.4 x 3.2 mm			
			• Brass: 25.4 mm x 3.2 mm			
			• Mild steel: 25.4 mm x 3.2 mm			
			• Cable			
			• Nine mass hangers			
			• 50 x 20 g masses			
			• Hexagon tools for beam fixings			

			• Vernier caliper			
			• Storage tray			
			• Comprehensive user guide			
			Bending Stress in a Beam			
			Key Features			
			• One of a range of experiment modules that teach structures			
			principles			
			• Fits to the Structures platform for ergonomic use and space-			
			saving storage			
			• Strain gauge amplifier and multiple strain gauges for a complete			
			measurement of strain at different positions around the beam			
			section			
			• T-section beam for stability, with an off set neutral axis			
			• Includes Vernier caliper for beam cross-section measurement			
			• Supplied with a storage tray to keep smaller items safe			
			• Works with software data acquisition			
			Learning outcomes			
			• Stress and strain relationship			
			• Strain gauges as instruments			
			• Finding the neutral axis by experiment and calculation			
			• How the beam cross-section dimensions affect the second			
			moment of area (I value) and neutral axis			
			Software			
			data acquisition applications			
			(data acquisition Onboard) for each experiment module, with			
			additional simulated experiments			
			The simulated experiments allow students to simulate the hands-on			
			laboratory experiments, verifying their results.			
			They also allow simulation of alternative set-ups, such as beams of			
			different cross-sectional shape and material properties.			
			Items Included:			
			• Two beam supports			
			• T-section beam with nine strain gauges. 0.85 m length and 0.7 m			
			span			
			• Strain gauge amplifier, 16 input			
			• Load cell of maximum capacity 650 N			
			• Nine 1 m strain gauge cables			
			• Two cables			
			• Hexagon tools for beam fixings			
			• Vernier caliper			
			• Inclinator			
			• Storage tray			
			• Comprehensive user guide			
			Includes:			
			Electronic Laboratory (1 (ONE) year subscription) should provide			
			actual demo during post qualifications			
			Key features			
			• Provides automatic calculation, recording, charting and data			
			export remotely			
			• An unlimited number of students can simultaneously acquire			
			and process live experimental data remotely from their			
			computer			
			• can individually manipulate the experiment data remotely			
			• clear, customisable display and layout			

			• To monitor, the connection status of students are time logged			
			• Input data manually or automatically			
			• Data record set by time or intervals			
			• Display of real-time data, in digital form or as an analogue meter			
			• Real-time traces of data			
			• Record data for printing and later analysis			
			• Exporting data to be compatible to other software			
			• Recording real-time calculated data			
			• prints charts and data tables			
Indicate and attach the brand/samples/brochures of the items being offered					Total ABC	4,999,800.00
Nothing Follows						

Note;

1. All Entries must be typewritten
2. Project duration must be completed within 210 calendar days from the commencement date
3. Warranty security shall be required from the contract awardee for a minimum period of three (3) months, in the case of Expendable Supplies/Expiration of the products must be at least one (1) year from the date of delivery
4. Price validity shall be for a period of 120 calendar days
5. G-EPS Registration Certificate shall be attached upon submission of the quotation
6. Bidders shall submit original brochures showing certifications of the product being offered

After having carefully read and accepted your General Conditions, I/We quote on the item/s at prices noted above

Printed Name with Signature

Telephone/Cellphone No.

E-mail Address