

Product Name : Microwaves and waveguides	Product Code : MWG19
	
Description :	
Microwaves and waveguides - Should comprise of different cross-sections of waveguides; should have waveguide components and measurements of their characteristics (insulation, phase shift, attenuation and reflection): rotary coupling, E- and H- plane bends, phase shifters, ferrite valves, cross-couplers, directional couplers, ferrite circulators (attenuation and reflection); should provide for measurement of insertion and coupling attenuation, modulation and demodulation of microwaves in waveguides; impedance matching; open and short circuit termination of waveguides – characteristics; should comprise different microwave communication system components: Modulators, slotted impedance adapters; should provide for calibration of the system where applicable; should provide for characterization of the waveguides using smith charts, investigation of effects of dielectric media, dimensioning, obtaining standing wave diagrams and operating frequencies and wavelengths; measuring equipment. Variable frequency operation An application of a microwave communication system should also be considered.	

Should operate at low powers
convenient for class room use

Software for simulation of
microwave system

Interfaces: GPIB (IEEE
1488.2), USB 2.0 (or higher) or Ethernet

Power Supply: 240V, 50-Hz,
power cable with 3-pin plug (BS 1363)

Accessories: Any special
power supplies, cabling or other essential components should also be provided.

Detailed training/experiment
manuals (for the instructors and the students) in English.

The system should also provide for fault insertion
and test points. The connectors/system should provide protection against
incorrect insertion and direct exposure to microwaves

Technical Specification :

Microwaves and waveguides

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