



PHYSICS DEPARTMENT FMNS UNIVERSITAS NEGERI SURABAYA

JURUSAN FISIKA FMIPA UNIVERSITAS NEGERI SURABAYA KATALOG PERALATAN EKSPERIMEN LABORATORIUM FISIKA MODERN

No	Equipment	Code		
1	Mechanical Wave Driver	SF-9324		
2	Sloted String Holder with Plug			
3	String Holder with Plug			
4	Banana Plug Patch Cords	SE-9751		
5	Function Generator	Pl-8127		
6	ScienceWorkshop 750 interface	Cl-7650		
7	Data Studio			

1. MECHANICAL WAVE DRIVER SF-9324

Experimen Topics :

Determine the resonant frequencies as a function of length, or examine the relationship between wave velocity and the tension and mass per unit length of the string or wire







Figure 3: String Holder

Figure 1: Apparatus



Figure 4: Banana Plug

Figure 2: Sloted





Figure 5: Function Generator

Figure 6: Interface





Figure7: Experiment Setting in Laboratory

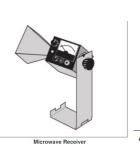
2. MICRO WAVE

No	Equipment	Code
1	Microwave Transmitter with Power Supply	
2	Microwave Receiver	
3	Attaching the Transmitter and Receiver Stands	
4	Goniometer	
5	Fixed Arm Assembly	
6	Rotating Table	
7	Component Holder	
8	Rotating Component Holder	
9	Metal reflector	WA-9315
10	Partial reflector	
11	Polarizers	
12	Slit Extender Arm	
13	Narrow Slit Spacer	
14	Ethafoam Prism Mold w/ Styrene Pellets	
15	Tubular Plastic Bags	
16	Cubic Lattice with 100 metal spheres—5x5x4 array	
17	Polyethylene Panel	

Experiment Topics :

- 1. Reflection
- 2. Standing Waves_Measuring Wavelengths
- 3. Refraction Through a Prism
- 4. Polarization
- 5. Double- Slit Interference
- 6. Lloyds Mirror
- 7. Fabry-Perot Interferometer
- 8. Mechelson Interferometer
- 9. Fiber Optics
- 10. Brewster Angle
- 11. Bragg Diffraction





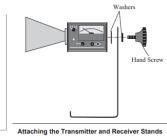


Figure 1: Microwave Transmitter Figure 2: Microwave Receiver Figure 3: Attaching

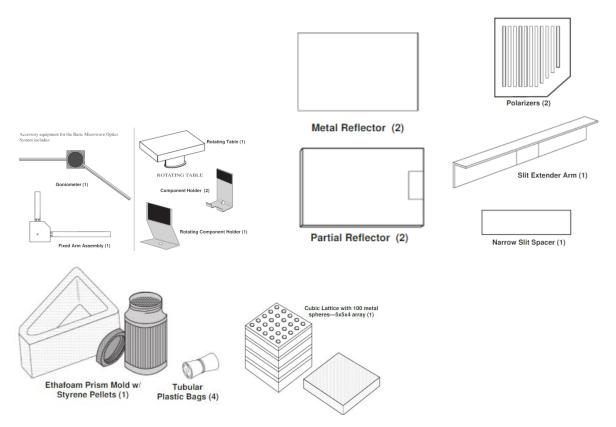


Figure 4: Microwave Accessory Package

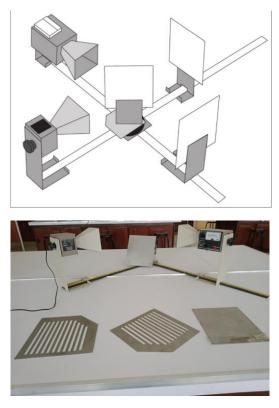


Figure 5: Experiment Setting in Laboratory

3. RIPPLE TANK WA-9897

No	Equipment	Code
1	Ripple Tank System	WA-9899
2	Light Source	
3	Ripple Generator	
4	Standard Dipper	
5	Large Actuator	WA-9896
6	Small Actuator	WA-9090
7	Dipper Adapter	
8	Plane Dipper	
9	AC Adapter, 15 VDC, 1,6 A	
10	Rod	
11	Ripple Tank Assembly	
12	Scree Assembly	
13	Leg	
14	Curved Reflector	
15	Long Diffraction Barrier	
16	Short Diffraction Barrier	
17	Mini Diffraction Barrier	WA-9897
18	Concave Refractor	WA-9077
19	Convex Refractor	
20	Trapezodial Refractor	
21	Bottle of Surfactant	
22	Pipette, 5 mL	
23	Ruler	
24	Plastic Storage Box	
25	Beaker, 1000 mL	

Experiments Topics :

- 1. Reflection
- 2. Refraction
- 3. Diffraction
- 4. Interference
- 5. Image Formed by a Plane Mirror
 6. Wave Speed



Figure 1: Light Source and Set Figure 2: Ripple Generator Figure 3: Ripple Tank Asembly



Figure 4: Experiments Setting in Laboratory

4. SONOMETER

No	Equipment	Code
1	Driver or Detector Coils	WA-9613
2	Function Generator	Pl-8127
3	Oscilloscope	
4	Mass	
5	Base	

Experiment Topics :

- 1. Resonance Modes of a Stretched String
- 2. Velocity of Wave Propagation



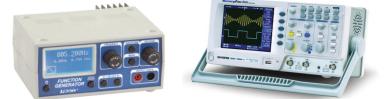


Figure 1: Driver or Detector Coils Figure 2: Function Generator Figure 3: Oscilloscope



Figure 4: Mass Set



Figure 5: Base

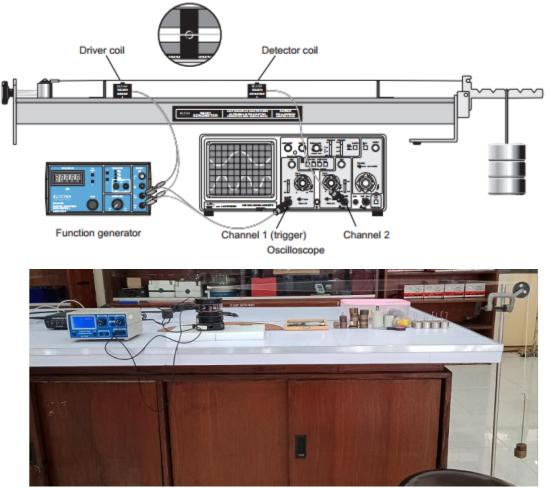


Figure 6: Experiment Setting in Laboratory