

<b>An ISO Certified Company</b>	<b>Mars EdPal Instruments Pvt. Ltd</b> 3575, Timber Market, Ambala Cantt - 133 001 Ph: 0091-171-2634674, 2643040 Fax: 0091-171-2601090 e.mail: info@marsedpal.com website: www.marsedpal.com
	<b>Product LIST 2011-2012</b>
<b>Model No.</b>	<b>Description</b>
<b>TESTING MEASURING &amp; LABORATORY INSTRUMENTS</b>	
<b>Oscilloscopes &amp; Spectrum Analysers</b>	
<b>Analog Oscilloscopes</b>	
ME 3010	CRO 10MHz, Single Channel
ME 3020	CRO 20MHz, Dual Channel, 2 Trace
ME 3020CT	CRO 20MHz, Dual Channel, 2 Trace with Component Tester
ME 3030	CRO 30MHz, Dual Channel, 2 Trace
ME 3030F	CRO 30MHz, Dual Channel, 2 Trace with inbuilt 30MHz Frequency Counter
ME 3060	CRO 60MHz, Dual Channel, 2 Trace
<b>Digital Storage Oscilloscopes</b>	
ME 4025C	DSO 25MHz Sampling Rate 250MS/s (Color LCD Display)
ME 4060CA	DSO 60 MHz Sampling Rate 1GS/s (Color LCD Display)
ME 4100CA	DSO 100 MHz Sampling Rate 1GS/s (Color LCD Display)
ME 4200CA	DSO 200 MHz Sampling Rate 1GS/s (Color LCD Display)
<b>Analyzers</b>	
ME 5001	Spectrum Analyzer 1GHz
ME 5001TG	Spectrum Analyzer 1GHz with Tracking Generator
ME-LA	Logic Analyser (PC Based)
<b>Function Generators / Frequency Counters / Soldering Stations</b>	
ME 250	Analog Function Generator 1Hz to 200KHz
ME 252	Fixed Frequency Sine Wave Oscillator (1KHz)
ME 254	RF Oscillator 3MHz - 8MHz
ME 270	Signal Injector
ME 271	Signal Tracer
ME 900	Function Generator 0.1Hz~10MHz with AM/FM & Frequency Counter
ME 905	Function Generator 0.1Hz~15MHz with AM/FM & Frequency Counter
ME 910D	Function Generator 0.2Hz~10MHz with AM / FM / FSK, Frequency Counter & Amplitude Display
ME 920D	Function Generator 0.2Hz~20MHz with AM / FM / FSK, Frequency Counter & Amplitude Display
ME 916	Function Generator 0.1Hz~6MHz with Frequency Counter & Amplitude Display
ME 920	Function Generator 0.2Hz~2MHz (Analog)

<b>Model No.</b>	<b>Description</b>
ME 920F	Function Generator 0.2Hz~2MHz with Frequency Counter
ME 957	Function Generator 0.1Hz~5MHz with Frequency Counter
MFG 2110Z	DDS Signal Generator 0.1Hz ~ 10MHz
MFG 2150Z	Arbitrary Signal Generator 0.1Hz ~ 50MHz
MAG 450	Analog RF Signal Generator 100KHz~150MHz
SG 4162AD	Digital RF Signal Generator 100KHz~150MHz with Frequency Counter
MAG 2015AD	Digital Signal Generator 0.1Hz~15MHz
VC 2000	8 Digit Frequency Counter 10Hz~2.4 GHz
VC 2010	Frequency Counter 3GHz
SM 850	Hot Air Soldering Station
SM-936D	Digital Antistatic Soldering Station
SM 702	Soldering Station Maintenance Center
ME 777SD	Soldering & Desoldering Station (with Automatic Vacuum Suction Desoldering Pump)
ME 777D	Desoldering Station (with Automatic Vacuum Suction Desoldering Pump)
<b>Power Supplies</b>	
	<b>DC Regulated Power Supplies Single Channel / Dual Channel</b>
ME 230	Single Output 0 - 30VDC/2 Amps with fixed 5V/3.3V output
ME 231	Single Output 0 - 30VDC/5 Amps with fixed 5V/3.3V output
ME 233	Single Output 0 - 30VDC/10 Amps
ME 235	Single Output 0 - 60VDC/5 Amps
ME 236	Single Output 0 - 60VDC/10 Amps (Dual Supply used in series mode)
ME 240	Dual Output 0 - $\pm$ 30VDC/2 Amps with fixed 5V/3.3V output
ME 241	Dual Output 0 - $\pm$ 30VDC/5 Amps with fixed 5V/3.3V output
ME 130	Multiple DC Regulated Power Supply (CH 1: 0-6VDC / 100mA-2Amps, CH 2: 0-32VDC / 100mA-2Amps, CH 3: 0- $\pm$ 15VDC / 100mA-1Amps)
	<b>Special Purpose Power Supplies</b>
ME 135	DC Power supply 0 - 16Volts / 2Amps with One Digital Voltmeter
ME 137	Electronic Standard Cell 1.018 VDC
ME 138	Fixed Output DC Regulated Power Supply $\pm$ 5VDC/1Amp
ME 140	Fixed Output DC Regulated Power Supply $\pm$ 12VDC/1Amp
ME 141	Fixed Output DC Regulated Power Supply $\pm$ 12VDC/2Amp
ME 142	Fixed DC power Supply 2V/1A, +6V/1A
ME 142B	Fixed DC Power Supply 2V/1A , 1.018VDC

<b>Model No.</b>	<b>Description</b>
ME 143	Fixed DC Power Supply 2V/1A, +6V/1A, +1.018V
ME 145	Power Supply for Electrophoresis Apparatus (0-300VDC/100mA) (Digital)
ME 161	Power Supply for Diode/Triode Valve Experiments(0-300VDC/30mA)
ME 166	Power Supply for Millikan's Oil Drop Apparatus with One Analog Meter
ME 170	H.T. AC/DC Power Supply 0-500V/500 mA (Digital)
ME 171	L.T. AC/DC Power Supply 0-25V/10A (Digital)
ME 175	AC Power supply 0 - 30VAC/10Amps (Digital)
ME 176	Power Supply for Kelvin Bridge 0-12VDC/10Amps
ME 180	Power Supply +12V, -12V, +5V, -5V / 200mA
ME 221	Transformer for Callender & Barne's Experiment 6-30 VAC/ 3A
ME 222	Transformer for Sonometer Electromagnet 8V/3A
ME 223	Sodium Vapour Lamp Transformer (35Watts)
ME 224	Sodium Vapour Lamp Transformer (55Watts)
ME 225	Mercury Vapour Lamp Transfromer (80Watts)
	<b>Programmable Power Supply &amp; DC Electronic Load</b>
AE 3645A	Programmable DC Power Supply
AE 3710A	Programmable DC Electronic Load
	<b>Student AC/DC Power Supplies with over load &amp; short circuit protection</b>
ME 202	AC/DC Power Supply 2-12V/2 Amps in steps of 2 Volts
ME 203	AC/DC Power Supply 2-12V/3 Amps in steps of 2 Volts
ME 205	AC/DC Power Supply 2-12V/5 Amps in steps of 2 Volts
ME 210	AC/DC Power Supply 2-16V/3 Amps in steps of 2 Volts
ME 214	AC/DC Power Supply 2-24V/3 Amps in steps of 2 Volts
ME 215	AC/DC Power Supply 2-24V/5 Amps in steps of 2 Volts
	<b>Step Down Transformers</b>
ME 226	2-12 VDC/2 Amps
ME 227	2-12 VDC/3 Amps
	<b>Battery Chargers</b>
ME 352	Battery Charger 2-12 VDC/2 Amps
ME 353	Battery Charger 2-12 VDC/3 Amps
ME 354	Battery Charger 2-12 VDC/5 Amps

Model No.	Description
	<b>Battery Eliminator</b>
ME 402	Battery Eliminator 2-6 VDC/2 Amps
ME 412	Battery Eliminator 2-12 VDC/2 Amps
ME 413	Battery Eliminator 2-12 VDC/3 Amps
ME 415	Battery Eliminator 2-12 VDC/5 Amps
	<b>DC Regulated Battery Eliminator</b>
ME 422	DC Regulated Battery Eliminator 2-12 VDC/2 Amps
ME 423	DC Regulated Battery Eliminator 2-12 VDC/3 Amps
	<b>Measuring Meters</b>
VC 100	Analog Multimeter
VC 203	3 1/2Digit Digital Multimeter (Manual Range)
VC 890D	3 1/2Digit Digital Multimeter (Manual Range)
VC 97	3 3/4 Digit Digital Multimeter with Frequency Counter of 30 MHz(Auto Range)
MDM 8145	4 1/2 Digital Multimeter Bench Type
ME 8045	4 1/2 Digital Multimeter Bench Type (Manual Range)
DT 6234B	Tachometer (Photo Type 5~99,999RPM)
DT 6236B	Tachometer 2 in 1(Contact Type 0.5~19,999RPM & Photo Type 5~99,999RPM)
DT 2350B	Stroboscope (50~40000FPM)
MS 2002A	3 3/4 Digital Clamp Meter (Auto Range)
200-118	Vernier Caliper (General 0~200x0.02mm)
200-196	Vernier Caliper (With Digital Meter 0~150x0.01mm)
200-521	Digital Micrometer (With Digital Meter 0~25x0.001mm)
MAD 201C	Distortion Meter 20Hz~20kHz
DOM 801B	DC Low Ohm Meter
BT 3C	Sweep Signal Analyzer
ME 256	3.5 Digit LED Digital Panel Meter (DC Volts, DC Amps, DC Milli Amps, DC Micro Volts)
ME 256A	3.5 Digit LED Digital Panel Meter (AC Volts, AC Amps)
ME 256B	3.5 Digit LCD Digital Panel Meter
ME 257	Digital AC Millivoltmeter
ME 258	Digital AC Millivoltmeter With Built in Fixed output Sine Wave Oscillator (1KHz)
HFJ 8AD	RF AC Millivoltmeter
ME 259	Digital pH Meter
ME 260	Digital Conductivity Meter
ME 261	Digital Gauss Meter

Model No.	Description
ME 262	Output Power Meter (10Watts)
ME 262RF	RF Output Power Meter (50 Watts)
ME 263H	LCR Q Meter Hand Held
ME 263	LCR Q Meter (Bridge Type)
ME 263D	LCR Q Meter - Digital (Direct Q Measurement)
ME 264	Universal IC Tester
ME 265	Digital IC Tester
ME 266	Analog IC Tester
ME 294	Digital Transistor Tester
ME 295	Digital Earth Tester
ME 5104	Digital Insulation Tester
	<b>Analog Moving Coil Meters</b>
	<b>Note:</b> > Accuracy of Acrylic Square meter is 'D' $\pm 2\%$ (Deluxe 'D')
	> Specify the range at the time of order
ME 450D	DC Ammeters (Any Range 0-1,2,5,...10 Amps (Internal shunt)
ME 451D	DC Milli Ammeter 0-1,3,5,10,15,25,30,...1000mA (Any One Range)
ME 452D	DC Micro Ammeter 0-25 Or 0- 30 $\mu$ A (Any Range)
ME 453D	DC Micro Ammeter 0-50 $\mu$ A
ME 454D	DC Micro Ammeter 0-100 $\mu$ A
ME 455D	DC Micro Ammeter 0-250 $\mu$ A or 0- 300 $\mu$ A (Any Range)
ME 456D	DC Micro Ammeter 0-500 $\mu$ A
ME 457D	DC Voltmeter 0-1,3.5,10,15,30.....600V (Any One Range)
ME 458D	Milli Voltmeter DC 0-10mV
ME 459D	Milli Voltmeter DC 0-25mV
ME 460D	Milli Voltmeter DC 0-60mV
ME 461D	AC Voltmeter (Rectifier Type) 0-1,3,5,10.....30V (Any One Range)
ME 462D	AC Voltmeter (Rectifier Type) 0-50,100,150,....600V (Any One Range)
ME 463D	AC Ammeter (Rectifier Type) 0-1,3,5.... 10A (With current transformer) (Any One Range)
ME 464D	AC Milli Ammeter (Rectifier Type) 0-1,10, 30,100,300 .....1000mA (Without current transformer) (Any One Range)
	<b>Galvanometers</b>
ME 471D	Galvanometer 30-0-30 Division Sensitivity of 20 $\mu$ A/Division
ME 472D	Galvanometer 30-0-30 Division Sensitivity of 2 $\mu$ A/Division

Model No.	Description
	<b>Portable Voltmeters/Ammeters / P.F Meters/Wattmeters</b>
ME 480	Single Range Moving Iron AC/DC Portable Voltmeter
	Select any one range :
	0-10V OR 15V OR 20V OR 25V OR 30V OR 50V OR 100V OR 150V OR 300V OR 600V
ME 480A	Single Range Moving Coil DC Portable Voltmeter
	Select any one range :
	0-1V OR 3V OR 5V OR 10V OR 15V OR 30V OR 50V OR 100V OR 150V OR 300V OR 600V
ME 481	Dual Range Moving Iron AC/DC Portable Voltmeter
	Select any one range :
	0-5/10V OR 10/20V OR 15/30V OR 75/150V OR 150/300V OR 300/600V
ME 481A	Dual Range Moving Coil DC Portable Voltmeter
	Select any one range :
	0-5/10V OR 10/20V OR 15/30V OR 75/150V OR 150/300V OR 300/600V
ME 482	Tripple Range Moving Iron AC/DC Portable Voltmeter
	Select any one range :
	0-50/100/200V OR 75/150/300V OR 150/300/600V
ME 482A	Tripple Range Moving Coil DC Portable Voltmeter
	Select any one range :
	0-50/100/200V OR 75/150/300V OR 150/300/600V
ME 483	Single Range Moving Iron AC/DC Portable Ammeter
	Select any one range :
	0-5A OR 10A OR 15A OR 30A OR 50A
ME 483A	Single Range Moving Coil DC Portable Ammeter
	Select any one range :
	0-1A OR 3A OR 5A OR 10A OR 15A OR 30A OR 50A
ME 484	Dual Range Moving Iron AC/DC Portable Ammeter
	Select any one range :
	0-1/2A OR 2.5/5A OR 5/10A OR 10/20A OR 15/30A OR 30/60A
ME 484A	Dual Range Moving Coil DC Portable Ammeter
	Select any one range :
	0-1/2A OR 2.5/5A OR 5/10A OR 10/20A OR 15/30A OR 30/60A
ME 485	Tripple Range Moving Iron AC/DC Portable Ammeter
	Select any one range :
	0-5/10/20A OR 15/30/60A

Model No.	Description
ME 485A	Tripple Range Moving Coil DC Portable Ammeter
	Select any one range :
	0-5/10/20A OR 15/30/60A
ME 486	Single Range Single Phase Dynamometer Type Portable Wattmeter (U.P.F Type)
	Select any one range :
	Current Coil/Potential Coil :4Ax250V OR 5Ax250V OR 4Ax500V OR 5Ax500V OR 12Ax250V OR 10Ax500V
ME 487	Dual Range Single Phase Dynamometer Type Portable Wattmeter (U.P.F Type)
	Select any one range :
	Current Coil/Potential Coil :1/2A x75/150V OR 2.5/5Ax150/300V OR 5/10Ax150/300V
ME 488	Two Current and Three Voltage Range Single Phase Dynamometer Type Portable Wattmeter (U.P.F type)
	Select any one range :
	Current Coil/Potential Coil :1/2A x75/150/300V OR 2.5/5Ax150/300/600V OR 5/10Ax150/300/600V
ME 489	Two Current and Three Voltage Range Single Phase Dynamometer Type Portable Wattmeter (L.P.F type)
	Select any one range :
	Current Coil/Potential Coil :1/2A x75/150/300V OR 2.5/5Ax150/300/600V OR 5/10Ax150/300/600V
ME 490	Three Phase,Four Wire Dynamometer Type Portable Wattmeter (U.P.F Type)
	Select any one range :
	Current Coil/Potential Coil :1/2A x110V OR 2.5/5Ax125V OR 5/10Ax150V OR 2.5/5Ax440V
ME 491	Single Phase Dynamometer Type Portable Power Factor Meter
	Select any one range :
	Current Coil/Potential Coil : 5A/250V OR 5A/500V
ME 492	Three Phase,Four Wire Dynamometer Type Portable Power Factor Meter
	Select any one range :
	Current Coil/Potential Coil : 2.5A/250V OR 5A/250V OR 10A/110V
ME 493	Single Phase Digital Portable Type Wattmeter 200 or 2000 Watts

Model No.	Description
<b>Decade Boxes</b>	
<b>Decade Capacitance Box</b>	
ME 312	Two Dials of 0.001, 0.01 $\mu$ F or 0.01, 0.1 $\mu$ F or 0.1, 1 $\mu$ F (Select any one range)
ME 313	Three Dials of 0.001, 0.01, 0.1 $\mu$ F or 0.01, 0.1, 1 $\mu$ F (Select any one range)
ME 314	Four Dials of 0.001, 0.01, 0.1, 1 $\mu$ F
ME 315	Paper Condenser in Bakelite/wooden Box Any value from 0.001 to 1 $\mu$ F
<b>Decade Inductance Box</b>	
ME 322	Two Dials of 0.1mH, 1mH or 1mH, 10mH or 10mH, 100mH or 100mH, 1H (Select any one range)
ME 323	Three Dials of 0.1mH, 1mH,10mH or 1mH, 10mH, 100mH or 10mH, 100mH, 1H (Select any range)
ME 324	Four Dials of 0.1mH, 1mH, 10mH, 100mH or 1mH, 10mH, 100mH, 1H (Select any one range)
ME 325	Air Core Inductance in Wooden Box Any value from 0.1mH to 1H
<b>Decade Resistance Box</b>	
ME 332	Three Dials of 1 Ohms, 10 Ohms, 100 Ohms or 10 Ohms, 100 Ohms, 1000 Ohms (Select any range)
ME 333	Four Dials of 1 Ohms, 10 Ohms, 100 Ohms, 1000 Ohms or 10 Ohms, 100 Ohms, 1000 Ohms, 10000 Ohms (Select any one range)
ME 334	Five Dials of 1 Ohms, 10 Ohms, 100 Ohms, 1000 Ohms, 10000 Ohms
ME 335	Six Dials of 1 Ohms, 10 Ohms, 100 Ohms, 1000 Ohms,10000 Ohms, 100000 Ohms
ME 336	Metal Film Resistance of 0.5 Watt in Wooden/Bakelite Box (Any value from 1 Ohm to 10M Ohms)
<b>Spares</b>	
MARS	Oscilloscope Probe 20/30MHz
MARS	BNC to BNC CRO Probe
MARS	BNC to Crocodile Cro probe
MARS	4mm to 4mm Single Point Patch Chord for inter-connection
MARS	2mm to 2mm Single Point Patch Chord for inter-connection
MARS	4mm to 4mm Double Point Patch Chord for inter-connection
MARS	2mm to 2mm Double Point Patch Chord for inter-connection
MARS	4mm to 4mm Double Point Patch Chord for inter-connection ( Premium Quality)



Model No.	Description
<b>Work Bench</b>	
MARS	Work Benches Without Instruments
WB ECE	Work Bench Electronics With Instruments
	Oscilloscope 20 Mhz, Function Generator 5 Mhz, DC Power Supply +30V/2Amp, Multimeter 4.5 Digit, LCR Meter Hand Held, Soldering & De - Soldering Station
WB EEE	Work Bench Electrical With Instruments
	Oscilloscope 30Mhz with Frequency Counter, Function Generator 5Mhz, DC Power Supply 220V/2Amp, AC/DC Power Supply 0-30V/2Amp Multimeter, LCR Meter, Soldering & De - Soldering Station, Isolation Transformer 1KVA/230VAC
<b>ELECTRONICS / ELECTRICAL / PHYSICS LAB TRAINING MODULES</b>	
<b>Characteristics &amp; Applications</b>	
ME 500	Discrete Component Trainer
ME 510	Linear IC Trainer
ME 511	Digital IC Trainer
ME 521	Diode Valve Characteristics Apparatus with Two Analog Round Meters
ME 522	Triode Valve Characteristics Apparatus with Three Analog Round Meters
ME 523	Tetrode/Pentode Valve Characteristics Apparatus with Five Analog Round Meters
ME 524	Ionization Potential of Mercury using Thyatron Valve with Two Analog Round Meters
ME 525	IGBT Characteristics & Application
ME 526	Planck's Constant Apparatus
ME 527	Photo Cell Characteristics Apparatus
ME 528	Work Function of Diode (Richardson Law)
ME 529	Solar Cell Characteristics Apparatus
ME 530	Transistor Designer Kit (Discrete Components Trainer)
ME 532	H' Parameters of PNP Transistor in Common Emitter mode with Bakelite Panel & Round Meters
ME 532D	H' Parameters of PNP Transistor in Common Emitter mode with Aluminum Panel & Square Meters
ME 532P	H' Parameters of PNP Transistor in Common Emitter mode with Aluminum Panel & Digital Panel Meters
ME 533	Transistor Characteristics Apparatus with Bakelite Panel & Round Meters, Regulated Power Supplies
ME 533D	Transistor Characteristics Apparatus with Aluminum Panel & Square Meters, Regulated Power Supplies
ME 533P	Transistor Characteristics Apparatus with Aluminum Panel & Digital Panel Meters, Regulated Power Supplies
ME 534	SCR Characteristics Apparatus with Bakelite Panel & Round Meters

<b>Model No.</b>	<b>Description</b>
ME 534D	SCR Characteristics Apparatus with Aluminum Panel & Square Meters
ME 534P	SCR Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 535	FET Characteristics Apparatus with Bakelite Panel & Round Meters
ME 535D	FET Characteristics Apparatus with Aluminum Panel & Square Meters
ME 535P	FET Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 536	Microphone and Loudspeaker Characteristics Apparatus
ME 537	Tunnel Diode Characteristics Apparatus
ME 539	PN Junction Diode Characteristics Apparatus with Bakelite Panel & Round Meters
ME 539D	PN Junction Diode Characteristics Apparatus with Aluminum Panel & Square Meters
ME 539P	PN Junction Diode Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 542	Voltage Stabilization Characteristics of Zener diode with Bakelite Panel & Round Meters
ME 542D	Voltage Stabilization Characteristics of Zener diode with Aluminum Panel & Square Meters
ME 542P	Voltage Stabilization Characteristics of Zener diode with Aluminum Panel & Digital Panel Meters
ME 542RF	Zener Diode V-I Characteristics Apparatus with Bakelite Panel & Round Meters (Forward & Reverse)
ME 542RFD	Zener Diode V-I Characteristics Apparatus with Aluminum Panel & Square Meters (Forward & Reverse)
ME 542RFP	Zener Diode V-I Characteristics Apparatus with Aluminum Panel & Digital Panel Meters (Forward & Reverse)
ME 543	PN / Zener Diode / LED Characteristics Apparatus with Bakelite Panel & Round Meters
ME 543D	PN / Zener Diode / LED Characteristics Apparatus with Aluminum Panel & Square Meters
ME 543P	PN / Zener Diode / LED Characteristics Apparatus with Aluminum Panel & Digital Panel
ME 544	Energy Band Gap Apparatus with Bakelite Panel & Round Meters
ME 544D	Energy Band Gap Apparatus with Aluminum Panel & Square Meters
ME 544P	Energy Band Gap Apparatus with Aluminum Panel & Digital Panel Meters
ME 545	Energy Band Gap by Four Probe Method
ME 546	Thermistor Characteristics Apparatus with Bakelite Panel & Round Meters
ME 546D	Thermistor Characteristics Apparatus with Aluminum Panel & Square Meters
ME 546P	Thermistor Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 547B	UJT Characteristics Apparatus & UJT as Relaxation Oscillator with Bakelite Panel & Round Meters
ME 547BD	UJT Characteristics Apparatus & UJT as Relaxation Oscillator with Aluminum Panel & Square Meters

Model No.	Description
ME 547BP	UJT Characteristics Apparatus & UJT as Relaxation Oscillator with Aluminum Panel & Digital Panel Meters
ME 548	Mosfet Characteristics Apparatus with Bakelite Panel & Round Meters
ME 548D	Mosfet Characteristics Apparatus with Aluminum Panel & Square Meters
ME 548P	Mosfet Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 549	PUT Characteristics Apparatus
ME 550	Characteristics & Application of Basic Thyristors (SCR, Diac, Traic, UJT)
ME 550A	Characteristics & Application of Semiconductors & Thyristors (SCR, Daic, Traic, UJT, Mosfet, FET, BJT, Diode & Zener)
ME 551	Diac Characteristics Apparatus with Bakelite Panel & Round Meters
ME 551D	Diac Characteristics Apparatus with Aluminum Panel & Square Meters
ME 551P	Diac Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 552	Triac Characteristics Apparatus with Bakelite Panel & Round Meters
ME 552D	Triac Characteristics Apparatus with Aluminum Panel & Square Meters
ME 552P	Triac Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 553	Opto Coupler Characteristics Apparatus
ME 554	LDR Characteristics Apparatus with Bakelite Panel & Round Meters
ME 554D	LDR Characteristics Apparatus with Aluminum Panel & Square Meters
ME 554P	LDR Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 556	LED Characteristics Apparatus with Bakelite Panel & Round Meters
ME 556D	LED Characteristics Apparatus with Aluminum Panel & Square Meters
ME 556P	LED Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 557	Opto Electronic Devices Characteristics (LED, LDR, Photo Transistor & Photo Diode) with Bakelite Panel & Round Meters
ME 557D	Opto Electronic Devices Characteristics (LED, LDR, Photo Transistor & Photo Diode) with Aluminum Panel & Square Meters
ME 557P	Opto Electronic Devices Characteristics (LED, LDR, Photo Transistor & Photo Diode) with Aluminum Panel & Digital Panel Meters
ME 558	Photodiode Characteristics Apparatus with Bakelite Panel & Round Meters
ME 558D	Photodiode Characteristics Apparatus with Aluminum Panel & Square Meters
ME 558P	Photodiode Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 559	Photo Transistor Characteristics Apparatus with Bakelite Panel & Round Meters
ME 559D	Photo Transistor Characteristics Apparatus with Aluminum Panel & Square Meters
ME 559P	Photo Transistor Characteristics Apparatus with Aluminum Panel & Digital Panel Meters
ME 560	Measurement of Peak, Average & RMS value of a AC signal with Bakelite Panel & Round Meters

Model No.	Description
ME 560D	Measurement of Peak, Average & RMS value of a AC signal with Aluminum Panel & Square Meters
ME 560P	Measurement of Peak, Average & RMS value of a AC signal with Aluminum Panel & Digital Panel Meters
ME 561	Verification of KCL & KVL with Bakelite Panel & Round Meters
ME 561D	Verification of KCL & KVL with Aluminum Panel & Square Meters
ME 561P	Verification of KCL & KVL with Aluminum Panel & Digital Panel Meters
ME 562	Resistance in Series & Parallel Apparatus with Bakelite Panel & Round Meters
ME 562D	Resistance in Series & Parallel Apparatus with Aluminum Panel & Square Meters
ME 562P	Resistance in Series & Parallel Apparatus with Aluminum Panel & Digital Panel Meters
ME 563	Ohm's Law Apparatus with 2 round Meters but without Power Supply
ME 563PD	Ohm's Law Apparatus with 2 Meters & inbuilt DC Regulated Power Supply
ME 564D	Charging & Discharging of Condenser with 2 Meters
ME 565	Flashing & Quenching of Neon Bulb
ME 566	B.H. Curve Apparatus
ME 567	Conversion of GalvanoMeters into VoltMeters & AmMeters with Bakelite Panel & Round Meters
ME 567D	Conversion of GalvanoMeters into VoltMeters & AmMeters with Aluminum Panel & Square Meters
ME 567P	Conversion of GalvanoMeters into VoltMeters & AmMeters with Aluminum Panel & Digital Panel Meters
ME 568	Voltage Doubler & Tripler Circuit with Bakelite Panel & Round Meters
ME 568D	Voltage Doubler & Tripler Circuit with Aluminum Panel & Square Meters
ME 568P	Voltage Doubler & Tripler Circuit with Aluminum Panel & Digital Panel Meters
ME 570	LCR Resonance Apparatus with Bakelite Panel & Round Meters
ME 570D	LCR Resonance Apparatus with Aluminum Panel & Square Meters
ME 571D	LCR Resonance Apparatus With builtin Sine wave Oscillator
ME 572	LCR Impedance Apparatus With Bakelite Panel & Round Meters
ME 572D	LCR Impedance Apparatus with Aluminum Panel & Square Meters
ME 572P	LCR Impedance Apparatus with Aluminum Panel & Digital Panel Meters
ME 573	RC Circuit as Low Pass & High Pass Filters
ME 574	Study of AC Fundamentals
ME 576	Clipping & Clamping Circuit Apparatus
ME 577	Half Wave, Full Wave & Bridge Rectifier Apparatus With Bakelite Panel & Round Meters
ME 577D	Half Wave, Full Wave & Bridge Rectifier Apparatus with Aluminum Panel & Square Meters
ME 577P	Half Wave, Full Wave & Bridge Rectifier Apparatus with Aluminum Panel & Digital Panel

<b>Model No.</b>	<b>Description</b>
ME 578	Voltage Regulation using IC 317
ME 578B	Voltage Regulation using Zener Diode & Transistors
ME 578C	Voltage Regulation using 78 Series Voltage Regulators
ME 579	Ripple factor Apparatus With Bakelite Panel & Round Meters (Half Wave,full wave and Bridge rectifier)
ME 579D	Ripple factor Apparatus with Aluminum Panel & Square Meters (Half Wave,full wave and Bridge rectifier)
ME 579P	Ripple factor Apparatus with Aluminum Panel & Digital Panel Meters (Half Wave,full wave and Bridge rectifier)
ME 569D	DC Regulated Power Supply Trainer
ME 1153	Analog Lab Trainer (with Bread Board)
<b>Optional Ready to use modules for Analog Lab Trainer ME 1153</b>	
AC-01	Darlington Pair Amplifier
AC-02	Class B Amplifier
AC-03	Common Emitter Amplifier
AC-04	Common Collector Amplifier
AC-05	Common Base Amplifier
AC-06	Class A Amplifier
AC-07	Class C RF Tuned Amplifier
AC-10	RC Coupled Amplifier
AC-11	Complementary Symmetry Amplifier
AC-12	Feed Back Amplifier (Positive & Negative)
AC-13	Differential Amplifier (Transistorized)
AC-15	FET Common Source Amplifier
AC-20	IFT Amplifier
AC-21	Audio Power Amplifier using IC TBA 810
CA-01	PN Junction Diode Characteristics
CA-02	Transistor Characteristics (CB, CE, CB in NPN & PNP)
CA-03	Transistor Characteristics (CB NPN)
CA-04	Transistor Characteristics (CB PNP)
CA-05	Transistor Characteristics (CE NPN)
CA-06	Transistor Characteristics (CE PNP)
CA-07	Transistor Characteristics (CC NPN)
CA-08	PNP & NPN Transistor Tester
CA-09	Transistor Characteristics (CC PNP)
CA-10	FET Characteristics
CA-11	Zener Voltage Regulator

Model No.	Description
CA-12	Transistor Series Voltage Regulator
CA-13	Transistor Shunt Voltage Regulator
CA-14	UJT Characteristics
CA-15	MOSFET Characteristics
CA-16	SCR Characteristics
CA-17	TRIAC Characteristics
CA-18	DIAC Characteristics
CA-19	Zener diode V-I Characteristics
CA-20	Rectifier Circuits (Half Wave, Full Wave & Bridge Rectifier)
MO-01	Multivibrators (Astable/Monostable)
MO 02	Clapp Oscillator
MO 03	Crystal Oscillator
MO 04	Hartley Oscillator
MO-05	Colpit Oscillator
MO 06	Tuned Oscillator
MO-07	Wein Bridge oscillator
MO-08	Phase Shift Oscillator
MO 09	UJT as Relaxation Oscillator
MO-10	Phase Locked Loop
MO 11	Wein Bridge Oscillator using OPAMP
MO 12	Phase Shift Oscillator using OPAMP
MO 13	Multivibrator (Astable/ Monostable) using OPAMP
NF-01	Activer Filters (Low Pass and High Pass)
NF-02	Active Band Pass Filter
NF-03	Notch Filter (Active+Passive)
NF-04	Two Port Network ParaMeters
OP-01	Op-Amp (Inverting/Non-Inverting/Differentiator)
OP-02	Operational Amplifier (Adder/Scalar)
OP-03	Operational Amplifier (Integrator/Differnetiator)
OP-05	Schmit Trigger and Comaparator
OP-06	Sawtooth Generator using Op-Amp
PE-01	Phase Angle Control with Thyristor
PE-02	Phase Angle Control with Triac
PE-05	Thyristor as DC Voltage Switch

<b>Model No.</b>	<b>Description</b>
<b>e/m Apparatus</b>	
ME 580	e/m by Thomson Method
ME 581	e/m by Helical's Method
ME 584	e/m by Milikan's Oil Drop Method
<b>Network Theorems Verifications (In DC Circuits)</b>	
ME 590	Network Theorems (Norton's ,Thevin's ,Superposition & Maximum Power Transfer) With Bakelite Panel & Round Meters
ME 590D	Network Theorems (Norton's ,Thevin's ,Superposition & Maximum Power Transfer) with Aluminum Panel & Square Meters
ME 590P	Network Theorems (Norton's ,Thevin's ,Superposition & Maximum Power Transfer) with Aluminum Panel & Digital Panel Meters
ME 590 - I	Network Theorems (Superposition & Maximum Power Transfer) With Bakelite Panel & Round Meters
ME 590D - I	Network Theorems (Superposition & Maximum Power Transfer) with Aluminum Panel & Square Meters
ME 590P - I	Network Theorems (Superposition & Maximum Power Transfer) with Aluminum Panel & Digital Panel Meters
ME 590 - II	Network Theorems (Norton's & Thevin's) With Bakelite Panel & Round Meters
ME 590D - II	Network Theorems (Norton's & Thevin's) with Aluminum Panel & Square Meters
ME 590P - II	Network Theorems (Norton's & Thevin's) with Aluminum Panel & Digital Panel Meters
ME 592	Superposition Theorem With Bakelite Panel & Round Meters
ME 592D	Superposition Theorem with Aluminum Panel & Square Meters
ME 592P	Superposition Theorem with Aluminum Panel & Digital Panel Meters
ME 593	Norton's Theorem With Bakelite Panel & Round Meters
ME 593D	Norton's Theorem with Aluminum Panel & Square Meters
ME 593P	Norton's Theorem with Aluminum Panel & Digital Panel Meters
ME 594	Thevin's Theorem With Bakelite Panel & Round Meters
ME 594D	Thevin's Theorem with Aluminum Panel & Square Meters
ME 594P	Thevin's Theorem with Aluminum Panel & Digital Panel Meters
ME 595	Maximum Power Transfer Theorem With Bakelite Panel & Round Meters
ME 595D	Maximum Power Transfer Theorem with Aluminum Panel & Square Meters
ME 595P	Maximum Power Transfer Theorem with Aluminum Panel & Digital Panel Meters
ME 596	Reciprocity Theorem With Bakelite Panel & Round Meters
ME 596D	Reciprocity Theorem with Aluminum Panel & Square Meters
ME 596P	Reciprocity Theorem with Aluminum Panel & Digital Panel Meters
ME 597	Tellegan's Theorem with Bakelite Panel & Round Meters
ME 597D	Tellegan's Theorem with Aluminum Panel & Square Meters
ME 597P	Tellegan's Theorem with Aluminum Panel & Digital Panel Meters
ME 598	Millman's Theorem with Bakelite Panel & Round Meters
ME 598D	Millman's Theorem with Aluminum Panel & Square Meters
ME 598P	Millman's Theorem with Aluminum Panel & Digital Panel Meters

<b>Model No.</b>	<b>Description</b>
<b>Amplifiers</b>	
ME 606	Opamp Based Sinusoidal & Non Sinusoidal Wave Generator
ME 607	IFT Tuned Amplifier
ME 608	Class 'C' Amplifier
ME 610	Darlington Pair Amplifier
ME 611	Transistor Amplifier Circuits (CB, CE & CC Modes)
ME 612	Audio Power Amplifier using IC TBA 810
ME 613	FET Common Source Amplifier
ME 614	Common Collector (Emitter Follower) Transistor Amplifier
ME 617	Common Base Transistor Amplifier
ME 618	Common Emitter Transistor Amplifier
ME 619	Two Stage RC Coupled Amplifier
ME 620	Transistor Push Pull Amplifier
ME 621	Complementary Symmetry Amplifier
ME 622	Class 'A', 'B', 'AB' & Push Pull Amplifier
ME 623	Biasing of Transistor in Class 'A' Amplifier
ME 624	Biasing Techniques of Transistor(BJT)
ME 1160	Amplifier Lab Trainer with Power Supply (with Bread Board)
ME 1161	Amplifier Lab Trainer with Built in Power Supply, AC Millivoltmeter & Function Generator (with Bread Board)
<b>Optional Ready to use modules for Amplifier Lab Trainer ME 1160 / ME 1161</b>	
AC-01	Darlington Pair Amplifier
AC-02	Class B Amplifier
AC-03	Common Emitter Amplifier
AC-04	Common Collector Amplifier
AC-05	Common Base Amplifier
AC-06	Class A Amplifier
AC-07	Class C RF Tuned Amplifier
AC-10	RC Coupled Amplifier
AC-11	Complementary Symmetry Amplifier
AC-12	Feed Back Amplifier (Positive & Negative)
AC-13	Differential Amplifier (Transistorized)
AC-15	FET Common Source Amplifier
AC-20	IFT Amplifier
AC-21	Audio Power Amplifier using IC TBA 810



Model No.	Description
<b>Operational Amplifiers</b>	
ME 625	Operational Amplifier as Inverting, Non-Inverting, Summing & Difference Amplifier with one Digital Voltmeter
ME 626	Operational Amplifier as Inverting, Non-Inverting, Unity Gain Amplifier & Frequency Response with Analog Voltmeter
ME 627	Applications of Operational Amplifiers (Discrete Component Trainer)
ME 627B	Characteristics of Operational Amplifier (Discrete Component Trainer)
ME 629	Operational Amplifier as Summing, Scaling, Averaging, Window Detector & Zero Crossing Detector
ME 631	Operational Amplifier as Differentiator & Integrator
ME 633	Operational Amplifier as Schmitt Trigger
ME 634	Linear Wave Shaping Circuits (Study of Clipping, Clamping, Integrator, Differentiator)
ME 635	Operational Amplifier as Square wave Generator
ME 638	Operational Amplifier as Voltage Comparator
ME 639	Operational Amplifier as Differential Amplifier
ME 640	Operational Amplifier as V-I & I-V Converter
ME 641	Feedback Amplifier Series & Shunt Voltage
ME 644	Operational Amplifier as Voltage & Current Feedback Amplifier
ME 645	Operational Amplifier as Instrumentation Amplifier
ME 646	Operational Amplifier as Logarithmic Amplifier
ME 647	Precision Rectifier using Operational Amplifier
ME 649	Audio Power Amplifier (Class 'A' using BJT)
<b>Multivibrator &amp; Oscillator</b>	
ME 650	Application of IC 555 ( Astable , Monostable & Bistable Multivibrator)
ME 656	Bistable Multivibrator using Transistors
ME 657	Monostable & Free running Multivibrator using Transistors
ME 659	F-V & V-F Converter using IC 337
ME 660	Oscillators Circuits (Hartley, Colpitt, Wein Bridge, Relaxation, Clap, Tuned, Crystal and RC Phase Shift Oscillator)
ME 661	Hartley Oscillator
ME 662	Colpitt Oscillator
ME 664	Phase Shift Oscillator
ME 664A	Phase Shift Oscillator using OP-AMP
ME 665	Wein Bridge Oscillator using Operational Amplifier IC 741
ME 665A	Wein Bridge Oscillator using Transistor
ME 666	Relaxation Oscillator using UJT
ME 667	Tuned Collector Oscillator
ME 667A	Oscillators Circuits (Hartley, Colpitt, Wein Bridge, phase shift oscillator)
ME 668	Crystal Oscillator
ME 669	Voltage Controlled Oscillator using PLL 565

Model No.	Description
<b>DIGITAL ELECTRONICS LAB TRAINING MODULES</b>	
ME 675	Logic Gates using Six TTL IC's (6 in 1)
ME 678	RTL Logic Gates (5 in 1)
ME 679	Basic Logic Gate using Discrete Components (7 in 1)
ME 690	Digital Logic Trainer (Logic Gates, Boolean Identities & Demorgan's Theorems)
ME 692	Verification of truth tables of Logic Gates using Universal Gates
ME 695	Pulse/ Clock Generator using NAND Gate
ME 699	4 Bit Adder & Subtractor Circuits using IC 7483
ME 701	Digital Full Adders & Subtractors using NAND Gates
ME 702	Flip Flops using NAND Gates & TTL IC's
ME 711	Decade / Modulo-N Counter
ME 712	4 Bit Counters (Synchronous & Asynchronous)
ME 716	4 Bit Shift Registers
ME 718	Encoder & Decoder Circuits
ME 720	16 to 1 line Multiplexer & 1 to 16 Line Demultiplexer
ME 720A	Encoder/Multiplexer
ME 720B	Decoder/ DeMultiplexer
ME 722	RAM Circuit using IC 7489
ME 723	Parity Generator/Checker with Bakelite Front Panel
ME 724	4 Bit Digital Comparator
ME 731	4/8 Bit Analog to Digital Converter
ME 731E	4 Bit A/D Converter
ME 732	4/8 Bit Digital to Analog Converter
ME 732E	4 Bit D/A Converter
ME 734	Transfer Characteristics of TTL and TTL Schmit Trigger Inverter
ME 737	TTL-CMOS, CMOS-TTL Interfacing
ME 738	Arithmetic/Logic Unit (ALU)
ME 739C	TTL IC Characteristics Apparatus
ME 739T	CMOS IC Characteristics Apparatus

<b>Model No.</b>	<b>Description</b>
ME 1154	Digital Lab Trainer (with Bread Board)
<b>Optional Ready to use modules for Digital Lab Trainer ME 1154</b>	
DE-01	Logic Gates
DE-02	Universal Gate - NAND/NOR Gate
DE-03	EX-OR Gate Implementation
DE-04	Demorgan's Theorem
DE-05	EX-OR Gate Application
DE-06	Code Conversion (Binary to gray and gray to binary)
DE-07	Code conversion (BCD to excess-3 codes)
DE-08	Binary Adder/Subtractor
DE-09	Encoder/Decoder (8 to 3 Line Encoder, 3 to 8 Line Decoder)
DE-10	Multiplexer /Demultiplexer (4-1 Line Multiplexer, 1-4 Line Demultiplexer)
DE-11	Flip-Flops (R-S,D,J-K,T Flip-Flops)
DE-12	Shift Registers 4 Bit Serial n-Parallel Out
DE-13	4Bit Synchronous Binary Counter (Up Counter)
DE-14	4Bit Binary Ripple Counter (Up Down Counter)
DE-15	BCD to 7 Seven Segment Decoder
DE-16	Digital to Analog Converter (R-2R Ladder)
DE-17	Analog to Digital Converter
<b>BASIC COMMUNICATION LAB TRAINING MODULES</b>	
ME 741	Amplitude Modulation & Demodulation
ME 742	Frequency Modulation and Demodulation
ME 743	Pulse Amplitude Modulation & Demodulation
ME 744	Pulse Width Modulation & Demodulation
ME 745	Pulse Position Modulation & Demodulation
ME 746	PAM/PPM/PWM Modulation & Demodulation
ME 747	Phase Modulation and Demodulation
ME 748	Frequency Shift Keying Modulation & Demodulation
ME 749	Amplitude Shift Keying Modulation & Demodulation
ME 750	Phase Shift Keying Modulation & Demodulation
ME 751	Pulse Code Modulation and Demodulation
ME 752	Delta Modulation and Demodulation
ME 753	Adaptive Delta Modulation and Demodulation
ME 754	Single Side Band Modulation & Demodulation

<b>Model No.</b>	<b>Description</b>
ME 756	Sample & Hold Circuit using Op-Amp
ME 757	Detection of FM using Phase locked loop (PLL)
ME 758	Balanced Modulator/DSB-SC (DSB-SC Amplitude Modulation and Demodulation)
ME 761	Frequency Division Multiplexer & Demultiplexer
ME 762	QAM Modulation & Demodulation
<b>ADVANCE COMMUNICATION LAB TRAINING MODULES</b>	
ME 770	Frequency Modulation & Demodulation
ME 771	Delta, Adaptive Delta and Delta Sigma Modulation & Demodulation
ME 772	TDM Pulse Code Modulation Transmitter
ME 773	TDM Pulse Code Modulation Receiver
ME 774	Data Formatting and Carrier Modulation Transmitter
ME 775	Data Formatting and Carrier Demodulation Receiver
ME 776	Analog Signal Sampling & Reconstruction
ME 777	TDM Pulse Amplitude Modulation & Demodulation
ME 780	8 Bit Variable Data Generator for Model (ME 774 & ME 775)
ME 781	DSB/SSB AM Transmitter
ME 782	DSB/SSB AM Receiver
ME 785	Transmission Line Trainer
ME 786	Mobile Phone Trainer
ME 787	GSM Trainer
ME 788	CDMA Trainer
ME 788A	CDMA Trainer
<b>POWER ELECTRONICS LAB TRAINING MODULES</b>	
ME 791	Light Intensity control using SCR & Triac
ME 792	SCR Firing Circuits
ME 793	SCR Commutation Techniques
ME 794	Phase control using Triac
ME 795	Switching Action of a BJT
ME 795A	Switching Action of a FET
ME 796	Thyristor Firing Circuit Kit (UJT Controlled SCR Time Delay)
ME 797	Zero Voltage Switching using SCR

<b>Model No.</b>	<b>Description</b>
ME 798	Step up Chopper
ME 799	SCR Single Phase Half Wave, Full Wave, Fully Controlled Bridge Rectifier/Converter
ME 800	DC Motor Control using SCR's (with tachometer)
ME 802	Three Phase Fully Controlled Converter
ME 803	Three Phase Induction Motor Speed Controller
ME 804	Single Phase Cycloconverter
ME 806	SMPS Trainer Kit
ME 807	Jone's Chopper
ME 808	Morgan's Chopper
ME 809	Series Inverter using SCR's
ME 810	Parallel Inverter using SCR's
ME 812	Single Phase Inverter (using power mosfet)
ME 813	Chopper Circuit (using power mosfet with Motor)
ME 814	DC Drive Trainer
ME 815	Single Phase Half Controlled DC Drive
ME 816	SCR Ring Counter
<b>PHYSICS LAB EXPERIMENTAL LAB SETUPS</b>	
ME 821	Measurement of High Resistance using Substitution Method
ME 822	Lissajous Figure Apparatus
ME 823	Stefan Constant Apparatus
ME 824	Dielectric Constant Apparatus (Solid & Liquid)
ME 825	Hall Effect Experiment (Complete Setup)
ME 826	Fourier Analysis Kit
ME 827	Measurement of Susceptibility of Paramagnetic Solution by Quinck's Tube Method
ME 828	Heat Efficiency of an Electric Kattel
ME 829	Choke Charateristics Apparatus
ME 830	Inductance Measurement (using Impedance at Different Frequencies)
ME 831	Determine the Hight of Tower with the Help of Sextant
ME 840	GM Counter Experimental Setup
ME 850	Determine The Ballistic Constant of a Ballistic Galvanometer (Complete Setup)
ME 851	Determine The ECE of Copper using Tangent Galvanometer (Complete Setup)
ME 852	Determine the Wavelength of Sodium Light by Fresnel's Biprism Kit (Complete Setup)
ME 853	Determine the Focal Length of Two Lenses by Nodal Slide and Locate the Position of Cardinal Points (Complete Setup)

Model No.	Description
ME 854	Determine of the Specific Rotation of the Cane Sugar Solution with the Help of Polarimeter (Complete Setup)
ME 855	Determine the Wavelength of Spectral Lines using Plane Transmission Grating (Complete Setup)
ME 856	Determine the Viscosity of a Liquid by Stroke's Method (Complete Setup)
ME 857	Determine the Frequency of AC Mains by Electrical Vibrator
ME 858	Determine the Wave Length of Sodium Lamp by Newton Ring Method (Complete Setup)
ME 859	Determine Magnetic Field using Stewart and Gee's Apparatus (Complete Setup)
ME 860	Determine the Velocity of Ultrasonic Waves by using a Crystal (Complete Setup)
ME 861	Laser Experimental Setup with Diode Laser (Complete Setup)
ME 861H	Laser Experimental Setup with He-Ne Laser (Complete Setup)
ME 861L	He-Ne Laser with Power Supply (Complete Setup)
ME 862	High Resistance by Leakage Method (Complete Setup)
ME 863	Thermo electric e.m.f. with temperature for a copper iron thermo couple, by means of a potentiometer (Complete Setup)
ME 864	Calibration of Voltmeter using Potentiometer (Complete Setup)
ME 865	Determine Young's modulus's, modulus of rigidity and poisson's ratio of the material of a given wire by Searle's dynamical method (Complete Setup)
ME 866	Determine the Frequency of a Tuning Fork with the help of Sonometer
ME 867	Determine the Frequency of A.C. mains by means of a Sonometer (Complete Setup)
ME 868	Determine the Dispersive Power of the Material of the Prism for Violet & Yellow Colors of Mercury Light with the Help of Spectrometer (Complete Setup)
ME 869	Determine the Resolving Power of Telescope (Complete Setup)
ME 870	Determine the Wave Length of Sodium Lamp by Michelson Interferometer (Complete Setup)
ME 871	Determine the Refractive Index of Liquid using Diode Laser (Complete Setup)
ME 872	Determine the Malus Law using Diode Laser (Complete Setup)
ME 873	Determine the Brewster Angle using Diode Laser (Complete Setup)
ME 875	Determine the Refractive Index of Prism using white light & Spectrometer (Complete Setup)
ME 876	Carrey Foster Bridge with Four Gap (Complete Setup)
ME 880	Determine Thermal Conductivity using Lee's Disc Apparatus (Complete Setup)
ME 891	Sodium Vapour Lamp 35 Watt fitted in Box with Transformer
ME 892	Sodium Vapour Lamp 55 Watt fitted in Box with Transformer
ME 893	Mercury Vapour Lamp 80 Watt fitted in Box with Choke

Model No.	Description
<b>FILTER CIRCUITS</b>	
ME 961	T' type Passive Low Pass, High Pass, Band Pass & Band Stop filters
ME 966	M-Derived 'T' type Passive Low Pass & High Pass Filters
ME 971	"p" type Passive Low Pass High Pass, Band Pass & Band Stop filter
ME 983	Twin-T Active Notch Filter using Operational Amplifier
ME 984	Active filters using Operational Amplifier
ME 985	Transient Response of RLC Circuit with built-in Square Wave Oscillator
ME 986	Cascaded Two Port Network
ME 987	"T", "p" & "Bridge T" Type Attenuators
ME 988	RC, Low Pass, High Pass, Band Pass & Band Stop Filters
<b>INSTRUMENTATION LAB TRAINING MODULES</b>	
ME 1050	Instrumentation Trainer Using Transducers (Complete with following Experimental study) i) Study of LVDT ii) Study of RTD iii) Study of Thermocouple iv) Study of Thermistor v) Study of Opto Devices (Photo Diode, Photo Transistor, LDR, Zener, Diode) vi) Study of Wheatstone Bridge & Instrumentation Amplifier
ME 1051	Strain Gauge Trainer Kit (with Cantilever Beam)
ME 1052	LVDT Trainer Kit
ME 1053	RTD Trainer Kit
ME 1054	Thermocouple Trainer Kit
ME 1056A	Speed Measurement Module using Photo Electric Sensor
ME 1056B	Speed Measurement Module using Magnetic Sensor
ME 1057	Inductive Pick Up
ME 1058	Capacitive Pick Up
ME 1059	Piezo Electric Transducer
ME 1060	Hall Effect Sensor
ME 1061	Pressure Measurement using Strain Gauge
ME 1062	Load Cell Trainer Kit
ME 1063	Temperature Sensors Kit
ME 1064	Study of Linear Potentiometer Instrument Trainer
ME 1065	Data Logger (Voltage, Current, Temperature & Pressure)

Model No.	Description
<b>CONTROL LAB TRAINING MODULES</b>	
ME 1100	PID Simulator
ME 1101	PID Controller Kit (Model Process)
ME 1103	ON/OFF Temperature Controller (Indicator cum Controller)
ME 1104	AC Servo Speed Torque Characteristics Trainer
ME 1105	DC Servo Motor Speed Torque Characteristics Trainer
ME 1106	AC Position Control System Trainer
ME 1107	DC Position Servo Mechanism Trainer
ME 1108	AC Servo Voltage Stabilizer as Servomechanism
ME 1109	Stepper Motor Controller Trainer
ME 1109D	Stepper Motor Controller Trainer
ME 1112	Potentiometer as Error Detector
ME 1113	Synchro Transmitter Receiver Pair
ME 1114	Study of Compensation Network
ME 1115	Magnetic Amplifier
	Accessories for ME 1115
ME 2300	Variac 2 Amps Single Phase
ME 463D	AC Ammeter (Rectifier Type) 0-1A (Internal shunt) (With current transformer)
ME 463D	AC Ammeter (Rectifier Type) 0-5A (Internal shunt) (With current transformer)
ME 457D	DC Voltmeter 0-300V (Internal shunt)
ME 462D	AC Voltmeter (Rectifier Type) 0-150V (Internal shunt)
ME 240	DC Regulated Power Supply Dual Channel (With Four Digital Panel Meters) 0- $\pm$ 30VDC/2 Amps with Fixed 5V/3.3V output
ME 2364	Rheostate 50 Ohms/ 5 Amps. (Double Tube)
ME 2365	Rheostate 250 Ohms/ 3 Amps.
ME 1115A	Magnetic Amplifier (Series & Parallel Connection of Magnetic Amplifier)
	Accessories for ME 1115A
ME 463D	AC Ammeter (Rectifier Type) 0-1A (Internal shunt) (With current transformer)
ME 463D	AC Ammeter (Rectifier Type) 0-5A (Internal shunt) (With current transformer)
ME 457D	DC Voltmeter 0-300V (Internal shunt)
ME 240	DC Regulated Power Supply Dual Channel (With Four Digital Panel Meters) 0- $\pm$ 30VDC/2 Amps with Fixed 5V/3.3V output
ME 2364	Rheostate 50 Ohms/ 5 Amps. (Double Tube)
ME 2365	Rheostate 250 Ohms/ 3 Amps.
ME 1115B	Magnetic Amplifier (Positive & Negative Feed Back)



Model No.	Description
	Accessories for ME 1115B
ME 463D	AC Ammeter (Rectifier Type) 0-1A (Internal shunt) (With current transformer)
ME 463D	AC Ammeter (Rectifier Type) 0-5A (Internal shunt) (With current transformer)
ME 457D	DC Voltmeter 0-300V (Internal shunt)
ME 240	DC Regulated Power Supply Dual Channel (With Four Digital Panel Meters) 0- $\pm$ 30VDC/2 Amps with Fixed 5V/3.3V output
ME 2364	Rheostate 50 Ohms/ 5 Amps. (Double Tube)
ME 2365	Rheostate 250 Ohms/ 3 Amps.
ME 1116	DC Voltage Regulator as a Closed Loop System
ME 1117	Relay Control System
ME 1118	Mesurement of water level using strain guage
ME 1119	Educational Analog Computer
ME 1122	Light Intensity Control
ME 1123	Digital Control System
ME 1125	PLC Trainer Demonstration Unit
ME 1126	Linear System Simulator (Open loop & Close loop System of First order & Second order Systems)
<b>BREAD BOARD TRAINERS</b>	
ME 1150	Bread Board Trainer with Power Supplies (General Purpose)
ME 1151	Operational Amplifier Trainer (Bread Board Model)
ME 1152	Digital Electronics Circuit Trainer (Bread Board Model)
ME 1152OP	Set of 20 IC's & Instruction Manual for more then 60 Experiments
ME 1153	Analog Lab Trainer (with Bread Board)
ME 1154	Digital Lab Trainer (with Bread Board)
ME 1155	Analog & Digital Lab Trainer (Bread Board Model)
ME 1160	Amplifier Lab Trainer with Power Supply (with Bread Board)
ME 1161	Amplifier Lab Trainer with Built in Power Supply, AC Millivoltmeter & Function Generator (with Bread Board)
	<b>Note: For Optional Ready to use modules for ME 1153, ME 1154, ME 1155, ME 1160, ME 1161 refere our product range Characteristics &amp; Applications / Digital Electronics Lab Training Modules</b>



Model No.	Description
<b>MICROPROCESSOR &amp; MICROCONTROLLER LAB</b>	
<b>Trainers</b>	
ME 1300	8031 Microcontroller Training Kit with Inbuilt Power Supply
ME 1300L	8031 Microcontroller Training Kit with Inbuilt Power Supply (LCD Display,ASCII Keyboard)
ME 1302	8085 Microprocessor Training Kit with Inbuilt Power Supply
ME 1302L	8085 Microprocessor Training Kit with Inbuilt Power Supply (LCD Display,ASCII Keyboard)
ME 1303	8086 Microprocessor Training Kit with Inbuilt Power Supply
ME 1303L	8086 Microprocessor Training Kit with Inbuilt Power Supply (LCD Display,ASCII Keyboard)
<b>Interfacing Cards (order Saprate for ME 1302, ME 1303 &amp; ME 1300)</b>	
ME 1320	ADC-0809 Interface
ME 1321	Dual DAC Interface
ME 1322	Logic Controller Interface
ME 1323	Elevator Simulator I-Face
ME 1324	IC Tester Interface
ME 1325	Display Interface
ME 1326	Stepper Motor Interface
ME 1328	Stepper Motor 0.25 kg-cm Torque
ME 1330	Keyboard Interface
ME 1331	LCD Display Interface
ME 1332	Traffic Light Controller Card
ME 1333	Temperature Measurement card with Thermocouple
ME 1334	DC Motor Controller card with Motor & Power Supply
ME 1335	Relay & OPTO Coupler card
ME 1336	LED Display Matrix card
ME 1337	Thumb Wheel Switch Card
<b>Study Cards (Compatible with ME 1302 only)</b>	
ME 1350	8212 Memory Decoder card
ME 1351	8251 or 8253 Study card
ME 1352	8255 PPI Study card
ME 1353	8257 DMA Study card
ME 1354	8259 PIC Study card
ME 1355	8279 Keyboard Display Controller Supply card
ME 1356	8155 PPI with timer card
ME 1358	6264 RAM Study card
ME 1359	373 Latch Study card

<b>Model No.</b>	<b>Description</b>
<b>INTERFACING MODULES FOR LCD MODEL (ORDER SEPARATE FOR ME 1302L, ME 1303)</b>	
IC-01	8 Channel A/D Using ADC0809 Card With FRC Cable
IC-02	Dual CH. D/A using DAC0800 Card With FRC Cable
IC-03	1 Channel 12bit ADC Using AD 574 Card With FRC Cable
IC-04	Logic Controllor Interface With FRC Cable
IC-05	Elevator Simulator Interface With FRC Cable
IC-06	IC Tester Interface With FRC Cable
IC-07	Four Digit Seven Segment Display With FRC Cable
IC-08	Stepper motor driver card & motor With FRC Cable
IC-09	5x4 key's Matrix Keyboard Interfacing Module With FRC Cable
IC-10	16x1 LCD Interface With FRC Cable
IC-11	16x2 LCD Interface With FRC Cable
IC-12	Traffic Light Interface With FRC Cable
IC-13	Temperature Measurement Interface with FRC Cable
IC-14	DC Motor Interface With Motor With Power & Supply FRC Cable
IC-15	Relay & Opto Interface With FRC Cable
IC-16	8 x 8 Led Matrix Display Interface
IC-17	Thumb Wheel Switch Interface
<b>STUDY CARDS FOR LCD MODEL(ORDER SEPARATE FOR ME 1302L &amp; ME 1303)</b>	
SC-01	8255 PPI Study Card With FRC Cable
SC-02	8253 Programmable Timer Study Card With FRC Cable
SC-03	8155 PPI With Timer Card With FRC Cable
SC-04	8251 Usart Study Card With Serial Cable
SC-05	8257 DMA Study Card With FRC Cable
SC-06	8259 PIC Study Card With FRC Cable
SC-07	8279 Keyboard & Display Controllor Card With FRC Cable
SC-08	8212 Memory Decoder Study Card With FRC Cable
SC-09	373 Latch Study Card With FRC Cable
SC-10	6264/6116 Ram Study Card With FRC Cable

Model No.	Description
<b>ELECTRICAL LAB TRAINING MODULES &amp; EQUIPMENTS</b>	
<b>Electrical Bridges</b>	
ME 2200E	Anderson Bridge with inbuilt Digital Null Detector, Sinewave Oscillator etc
ME 2201E	Schering Bridge with inbuilt with Digital Null Detector, Sinewave Oscillator etc
ME 2202	Kelvin Bridge (Industrial)
	Accessories for above
ME 176	DC Source 0-12VDC/10A
ME 472D	Galvalnometer 30-0-30 Division Sensitivity of 2 $\mu$ A/Division
MARS	Connecting Leads (current carrying capacity 10Amps)
ME 2203	Kelvin Bridge (Student)
	Accessories for above
ME 176	DC Source 0-12VDC/10A
ME 472D	Galvalnometer 30-0-30 Division Sensitivity of 2 $\mu$ A/Division
MARS	Connecting Leads (current carrying capacity 10Amps)
ME 2204E	Maxwell Inductance Bridge with inbuilt Digital Null detector, Sinewave Oscillator etc
ME 2205E	Weins Bridge (Capacity Measurement) with inbuilt Digital Null Detector, Sinewave Oscillator etc
ME 2206E	Weins Bridge (Frequency Measurement) with Digital Null Detector
	Accessories for above
ME 250	Analog Function Generator 1Hz to 200KHz
ME 2207	Wheatstone Bridge (Portable)
	Accessories for above
ME 336	Metal Film Resistance of 0.5 Watt in wooden/Bakelite Box
ME 2208E	Desauty Bridge with inbuilt Digital Null Detector, Sinewave Oscillator etc
ME 2209E	Hay's Bridge with inbuilt Digital Null Detector, Sinewave Oscillator etc

<b>Model No.</b>	<b>Description</b>
ME 2214	Owen's Bridge
	Accessories for above
ME 2200B	Decade Inductance Box with Sine Wave Oscillator & Inductance
ME 2219	Sensitive Head Phone
ME 2217	Callender and Griffith's Bridge
	Accessories for above
	Platinum Resistance Thermometer
	Hypsometer
ME 472D	Galvalnometer 30-0-30 Division Sensitivity of 2 $\mu$ A/Division
ME 2228	Crompton Potentiometer (Complete Setup)
<b>Isolation Transformers</b>	
ME 2240A	Single Phase Transformer 0.5KVA/230VAC With Tappings at 50% & 86.6%
ME 2240	Single Phase Transformer 1KVA/230VAC With Tappings at 50% & 86.6%
ME 2241	Single Phase Transformer 2KVA/230VAC With Tappings at 50% & 86.6%
ME 2242	Three Phase Transformer 3KVA/440VAC
<b>Variable Auto Transformers (VARIAC), Loading Rheostats &amp; Motors</b>	
ME 2300	Variac 2 Amps Single Phase
ME 2301	Variac 4 Amps Single Phase
ME 2302	Variac 8 Amps Single Phase
ME 2303	Variac 10 Amps Single Phase
ME 2304	Variac 15 Amps Single Phase
ME 2308	Variac 4 Amps Three Phase
ME 2309	Variac 8 Amps Three Phase
ME 2310	Variac 10 Amps Three Phase
ME 2311	Variac 15 Amps Three Phase
ME 2315	DC Rectifier Unit, I/P-440VAC ,O/P-0-250VDC/20A
ME 2316	DC Rectifier Unit, I/P-440VAC ,O/P-0-250VDC/50A
ME 2321	Loading Rheostat 1 KW Single Phase in 5 Steps of 200 Watt Each
ME 2322	Loading Rheostat 2 KW Single Phase in 8 Steps of 250 Watt Each
ME 2323	Loading Rheostat 3 KW Three Phase (Each Phase of 1 KW) in 8 Steps.
ME 2323B	Loading Rheostat 1.5 KW Three Phase (Each Phase of 0.5 KW) in 4 Steps.
ME 2327E	Resistive lamp Load 500W in 5 steps



Model No.	Description
	<b>Experimental Control Panel for Electrical Lab (With Optional Accessories)</b>
ME 2400A	<b>Panel for Measurement of Power in Three Phase Circuit by Three Wattmeter Method.</b>
	Accessories for above
ME 2308	Variac 4 Amps Three Phase
ME 2323	Loading Rheostat 3 KW Three Phase (Each Phase of 1 KW) in 8 Steps.
ME 2400AE	<b>Panel for Measurement of Power in Three Phase Circuit by Three Wattmeter Method.</b>
	Accessories for above
Mars	Variac 2 Amps Three Phase
ME 2323B	Loading Rheostat 1.5 KW Three Phase (Each Phase of 0.5 KW) in 4 Steps.
ME 2400	<b>Measurement of Power in 3 Phase Circuit by Two Wattmeter Method</b>
	Accessories for above
ME 2308	Variac 4 Amps Three Phase
ME 2323	Loading Rheostat 3 KW Three Phase (Each Phase of 1 KW) in 8 Steps.
ME 2400E	<b>Measurement of Power in 3 Phase Circuit by Two Wattmeter Method</b>
	Accessories for above
Mars	Variac 2 Amps Three Phase
ME 2323B	Loading Rheostat 1.5 KW Three Phase (Each Phase of 0.5 KW) in 4 Steps.
ME 2401	<b>Measurement of efficiency of Single Phase Transformer (Direct Loading)</b>
	Accessories for above
ME 2302	Variac 8 Amps Single Phase
ME 2322	Loading Rheostat 2 KW Single Phase in 8 Steps of 250 Watt Each
ME 2240	Transformer 1KVA/230/230VAC With Tappings at 50% & 86.6%
ME 2401E	<b>Determination of Parameter and Losses in a Single Phase Transformer by OC and SC Test and efficiency of Single Phase Transformer (Direct Loading)</b>
	Control panel with builtin Variac 2 Amps Single Phase and Transformer Single phase 500VA
	Accessories for above
ME 2327E	Resistive lamp Load 500W in 5 steps



<b>Model No.</b>	<b>Description</b>
ME 2402	<b>Determination of Parameter and Losses in a Single Phase Transformer by OC and SC Test</b>
	Accessories for above
ME 2302	Variac 8 Amps Single Phase
ME 2240	Transformer 1KVA/230/230VAC With Tappings at 50% & 86.6%
ME 2403	<b>Study of Single Phase Energy Meter</b>
	Accessories for above
ME 2303	Variac 10 Amps Single Phase
ME 2322	Loading Rheostat 2 KW Single Phase in 8 Steps of 250 Watt Each
ME 2403E	<b>Study of Single Phase Energy Meter</b>
	Accessories for above
ME 2301	Variac 4 Amps Single Phase
ME 2321	Loading Rheostat 1 KW Single Phase in 5 Steps of 200 Watt Each
ME 2404	<b>Earth Resistance by Fall of Potential Method (Complete Setup)</b>
ME 2405	<b>Calibration of Wattmeter by DC Potentiometer (Complete Setup)</b>
ME 2406	<b>Calibration of Voltmeter &amp; Ammeter by DC Potentiometer (Complete Setup)</b>
ME 2407	<b>Single Phase Energy Meter with Phantom Loading</b>
	Accessories for above
ME 2301	Variac 4 Amps Single Phase
ME 2304	Variac 15 Amps Single Phase
ME 2350	Phase Shifting Arrangement
ME 2360	Rheostat 10ohms/10Amps
ME 2408	<b>Starting and Reversing of DC Shunt Motor</b>
	Accessories for above
ME 2378	DC Shunt Motor 1HP
ME 2390	Starter DC Motor 1HP (3 Point)

<b>Model No.</b>	<b>Description</b>
ME 2409	<b>Speed Control of DC Shunt Motor (By Voltage Control Method)</b>
	Accessories for above
ME 2378	DC Shunt Motor 1HP
DT 6336B	Tachometer 2 in 1(Contact Type 0.5~19,999RPM & Photo Type 5~99,999RPM)
ME 2410	<b>Sumpner's Test (Back to Back) Test on Single Phase Transformer</b>
	Accessories for above
ME 2240	Transformer 1KVA/230/230VAC With Tappings at 50% & 86.6%
ME 2240	Transformer 1KVA/230/230VAC With Tappings at 50% & 86.6%
ME 2303	Variac 10 Amps Single Phase
	Thermometer 100°C
ME 2410E	<b>Sumpner's Test (Back to Back) Test on Single Phase Transformer</b>
	Accessories for above
ME 2240A	Transformer 500VA/230/230VAC With Tappings at 50% & 86.6%
ME 2240A	Transformer 500KVA/230/230VAC With Tappings at 50% & 86.6%
ME 2301	Variac 4 Amps Single Phase
	Thermometer 100°C
ME 2411	<b>Parallel Operation Single Phase Transformer</b>
	Accessories for above
ME 2240	Transformers 1KVA/230/230VAC With Tappings at 50% & 86.6%
ME 2240	Transformers 1KVA/230/230VAC With Tappings at 50% & 86.6%
ME 2322	Loading Rheostat 2 KW Single Phase in 8 Steps of 250 Watt Each
ME 2302	Variac 8 Amps Single Phase
ME 2411E	<b>Parallel Operation Single Phase Transformer</b>
	Accessories for above
ME 2240A	Transformer 500VA/230/230VAC With Tappings at 50% & 86.6%
ME 2240A	Transformer 500KVA/230/230VAC With Tappings at 50% & 86.6%
ME 2321	Loading Rheostat 1 KW Single Phase in 5 Steps of 200 Watt Each
ME 2301	Variac 4 Amps Single Phase

<b>Model No.</b>	<b>Description</b>
ME 2412	<b>Voltage Relationship of Three Phase Transformer in Various Connections</b>
	Accessories for above
ME 2310	Variac 10 Amps Three Phase
ME 2242	Three Phase Transformer 3KVA
ME 2323	Loading Rheostat 3 KW Three Phase (Each Phase of 1 KW) in 8 Steps.
ME 2413	<b>Speed Control of D.C. Shunt Motor (By Armature and Field Current Control Method)</b>
	Accessories for above
ME 2378	DC Shunt Motor 1HP
DT 6236B	Tachometer 2 in 1 (Contact Type 0.5~19,999RPM & Photo type 5~99,999RPM)
ME 2362	Rheostat 300ohms/2Amps
ME 2363	Rheostat 100ohms/5Amps
ME 2413A	<b>Efficiency by Swinburn's Speed Control by Armature &amp; Field Control Method.</b>
	Accessories for above
ME 2378	DC Shunt Motor 1HP
ME 2362	Rheostat 300 Ohms / 2Amps DT
ME 2363	Rheostat 100 Ohms / 5Amps DT
ME 2414	<b>To Study Scott Connection of a Transformer</b>
	Accessories for above
ME 2310	Variac 10 Amps Three Phase
ME 2240	Transformer 1KVA/230/230VAC With Tappings at 50% & 86.6%
ME 2240	Transformer 1KVA/230/230VAC With Tappings at 50% & 86.6%
ME 2414E	<b>To Study Scott Connection of a Transformer</b>
	Accessories for above
ME 2308	Variac 4 Amps Three Phase
ME 2240A	Transformer 500VA/230/230VAC With Tappings at 50% & 86.6%
ME 2240A	Transformer 500KVA/230/230VAC With Tappings at 50% & 86.6%

<b>Model No.</b>	<b>Description</b>
ME 2415	<b>Load Test of DC Shunt Motor</b>
	Accessories for above
ME 2379	Loading Arrangement for DC Shunt Motor 1HP
DT 6236B	Tachometer 2 in 1 (Contact Type 0.5~19,999RPM & Photo type 5~99,999RPM)
ME 2390	Starter DC Motor 1HP (3 Point)
ME 2378	DC Shunt Motor 1HP
ME 2416	<b>To Plot Magnetizing Curve of a DC Series Generator</b>
	Accessories for above
ME 2321	Loading Rheostat 1 KW Single Phase in 5 Steps of 200 Watt Each
ME 2304	Variac 15 Amps Single Phase
ME 2380	AC Induction Motor 3HP Single Phase Coupled with 1KW DC Series Generator
ME 2417	<b>Different Type of Contactor Control Circuit (4 Types)</b>
	Accessories for above
ME 2411B	a) Remote Control Circuit
ME 2419C	b) Time Delay & Sequential Circuit
	c) Interlocking Circuit
ME 2418	<b>Angular Displacement Measurement of Synchronous Motor</b>
	Accessories for above
ME 2377	Synchronous Motor 3HP Three phase
ME 2419	<b>Speed Control of 3 Phase Induction Motor by Applying Voltage Variation</b>
	Accessories for above
ME 2385	AC Induction Motor 2HP,3 Phase
DT 6236B	Digital Tachometer
ME 2308	Variac 4 Amps Three Phase
ME 2420	<b>To Plot OCC of a DC Shunt Generator</b>
	Accessories for above
ME 2420MG	DC Shunt Motor 2HP,230V,1500rpm Coupled with DC Shunt Generator 1KW, 230VDC, 1500rpm
ME 2328	Resistive Lamp Load 1KW
ME 2390	3 Point DC Starter

<b>Model No.</b>	<b>Description</b>
ME 2422	<b>Measurement of Power &amp; Power Factor in Single Phase Circuit</b>
	Accessories for above
ME 2303	Variac 10 Amps Single Phase
ME 2322	Loading Rheostat 2 KW Single Phase in 8 Steps of 250 Watt Each
ME 2329	Capacitive Load 200mfd Single Phase in 20 Steps
ME 2330	Inductive Load 5Amp. Single Phase in 5 Steps
ME 2422E	<b>Measurement of Power &amp; Power Factor in Single Phase Circuit</b>
	Control Panel comprises of inductive load and capacitive load.
	Accessories for above
ME 2302	Variac 2 Amps Single Phase
ME 2321	Loading Rheostat 1 KW Single Phase in 5 Steps of 200 Watt Each
ME 2423	<b>Measurement of Power in 3 Phase Circuit by CT, PT &amp; 3 Phase Wattmeter</b>
	Accessories for above
ME 2310	Variac 10 Amps Three Phase
ME 2323	Loading Rheostat 3 KW Three Phase (Each Phase of 1 KW) in 8 Steps.
ME 2335	Current Transformer (CT 30/5Amp)
ME 2336	Potential Transformer (PT 220/100V)
ME 2423A	<b>Measurement of Power in Single Phase Circuit by CT, PT &amp; Single Phase Wattmeter</b>
	Accessories for above
ME 2303	Variac 10 Amps Single Phase
ME 2322	Loading Rheostat 2 KW Single Phase in 8 Steps of 250 Watt Each
ME 2424	<b>Panel for Load Test of DC Series Motor</b>
	Accessories for above
ME 2379	Loading Arrangement for DC Series Motor 1HP
DT 6236B	Tachometer 2 in 1 (Contact Type 0.5~19,999RPM & Photo type 5~99,999RPM)
ME 2390	Starter DC Motor 1HP (3 Point)
ME 2382	DC Series Motor 1HP

<b>Model No.</b>	<b>Description</b>
ME 2426	<b>To Obtain Efficiency of DC Shunt Motor by Swinburne's Test</b>
	Accessories for above
ME 2378	DC Shunt Motor 1 HP
ME 2362	Rheostat 300ohms/2Amps
ME 2390	Starter DC Motor 1HP (3 Point)
ME 2427	<b>To Obtain Losses &amp; Efficiency of DC Machine by Hopkinson's Test</b>
	Accessories for above
ME 2427MG	DC Shunt Motor 2 HP Coupled with DC Shunt Generator of 2 KW
ME 2362	Rheostat 300 Ohms/2 Amps
ME 2390	Starter DC Motor 1HP (3 Point)
ME 2428	<b>Panel For Study of Different Type of Fuses,MCBs &amp; ELCBs</b>
ME 2429	<b>To Connect, Start &amp; Reverse the Direction of Rotation of a Single Phase Induction Motor</b>
	Accessories for above
DT 6236B	Tachometer 2 in 1(Contact Type 0.5~19,999RPM & Photo Type 5~99,999RPM)
ME 2384	Induction Motor Single Phase 1 HP/ 230V Capacitor Type.
ME 2430	<b>To Connect, Start &amp; Reverse the Direction of Rotation of a 3 Phase Induction Motor</b>
	Accessories for above
DT 6236B	Tachometer 2 in 1(Contact Type 0.5~19,999RPM & Photo Type 5~99,999RPM)
ME 2383	Induction Motor 3 Phase 5 HP/ 415V.
ME 2431	<b>To Proform the Block Rotar Test of 3 Phase Induction Motor</b>
	Accessories for above
ME 2310	Variac 10 Amps Three Phase
DT 6236B	Tachometer 2 in 1(Contact Type 0.5~19,999RPM & Photo Type 5~99,999RPM)
ME 2381	AC Induction Motor 3HP Three Phase with Loading Arrangement

<b>Model No.</b>	<b>Description</b>
ME 2432	<b>Motor Generator Set to plot OCC and Load Characteristics of DC Shunt Generator</b>
	Accessories for above
ME 2432MG	DC Shunt Motor 2 HP Coupled with DC Shunt Generator of 1 KW
ME 2328	Resistive Lamp Load 1 KW
ME 2390	Starter DC Motor 1HP (3 Point)
DT 6236B	Tachometer 2 in 1 (Contact Type 0.5~19,999RPM & Photo type 5~99,999RPM)
ME 2433	<b>Motor Generator Set to plot Load Characteristics of DC Series Generator</b>
	Accessories for above
ME 2433MG	DC Shunt Motor 2 HP Coupled with DC Series Generator of 1 KW
ME 2328	Resistive Lamp Load 1 KW
ME 2390	Starter DC Motor 1HP (3 Point)
DT 6236B	Tachometer 2 in 1 (Contact Type 0.5~19,999RPM & Photo type 5~99,999RPM)
ME 2434	<b>Motor Generator Set to plot Load Characteristics of DC Compound Generator</b>
	Accessories for above
ME 2434MG	DC Compound Motor 3 HP Coupled with DC Compound Generator of 2 KW
ME 2328	Resistive Lamp Load 1 KW
ME 2390	Starter DC Motor 1HP (3 Point)
DT 6236B	Tachometer 2 in 1 (Contact Type 0.5~19,999RPM & Photo type 5~99,999RPM)
ME 2435	<b>Domestic Home Wiring Demonstration Panel</b>
ME 2437	<b>Characteristics of DC Shunt &amp; Series Motor</b>
	Accessories for above
MARS	DC Shunt Motor 0.5HP
MARS	DC Series Motor 0.5HP
ME 2390	3 Point DC Starter
ME 2438	<b>To Perform Load Test of Single Phase Induction Motor &amp; Plot Torque Speed Characteristics.</b>
	Accessories for above
ME 2303	Single Phase Variac 10Amp
	AC Induction Motor 1HP, Single Phase With Mechanical Load Arrangement

Model No.	Description
ME 2439 -I & II	<b>(i) To Study the Characteristics of a 3 Phase Alternator (ii) To Perform Load Test on A Three Phase Alternator &amp; To find Voltage Regulation by Synchronous Impedance Methode at Power Factor of Unity 0.8 Lagging &amp; 0.8 Leading (iii) To Determine the Losses &amp; Efficiency of an Alternator.</b>
	Accessories for above
ME 2439MG	DC Shunt Motor 2HP, 220V, 2000rpm Coupled with AC Alternator 1KVA, 440V, 1500rpm
ME 2325	Inductive Load 10 Amps, 3 Phase
ME 2326	Capacitive Load 10 Amps , 3 Phase
ME 2333	Resistive Lamp Load 1KW, 3 Phase
ME 2440	<b>DC Motor Drive Trainer</b>
ME 2441	<b>Parallel Operation of Two 3 Phase Transformers</b>
	Accessories for above
ME 2242	Three Phase Transformer 3KVA/440VAC
ME 2242	Three Phase Transformer 3KVA/440VAC
ME 2323	Loading Rheostat 3 KW Three Phase (Each Phase of 1 KW) in 8 Steps.
ME 2443	<b>To Plot V &amp; Inverted V Curves of a Synchronous Motor</b>
	Accessories for above
ME 2443MG	Synchronous Motor 3HP, 3Phase, 440V, 1500rpm Coupled with DC Shunt Generator 2KW, 220V, 1500rpm
ME 2321	Loading Rheostat 1KW Single Phase
ME 2444	<b>Thyristor / IGBT Controlled AC Motor Drive with VVVF controls</b>
	Accessories for above
MARS	AC Induction Motor 2HP, 3 Phase , with Sensor Arrangement
ME 2445	<b>OC &amp; SC Test on 3 Phase Synchronous Machine</b>
	Accessories for above
ME 2445MG	DC Shunt Motor 2HP, 220V, 2000rpm Coupled with AC Alternator 1KVA, 440V, 1500rpm
ME 2390	3 Point DC Starter
ME 2446	<b>To Study the Speed Control of A DC Shunt Motor by Ward Leonard Method.</b>
	Accessories for above
ME 2446MG	AC Induction Motor 3HP, 415V, 1500rpm Coupled with DC Shunt Generator 2KW, 220V, 1500rpm
ME 2378	DC Shunt Motor 1HP



Model No.	Description
ME 2447	<b>OC &amp; SC Test on A 3 Phase Transformer</b>
	Accessories for above
ME 2310	Variac 3 Phase 10Amp
ME 2242	Three Phase Transformer 3KVA/440VAC
ME 2448	<b>To Study the Controlling of Universal AC/DC Motor</b>
	Accessories for above
Mars	AC/DC Universal Motor 1HP, 230V
ME 2453	<b>To Perform Load Test on a 3 Phase Induction Motor &amp; To Plot Torque V/S Speed Characteristics.</b>
	Accessories for above
ME 2453MG	AC Induction Motor 3HP, 3 Phase Coupled with DC Shunt Generator 2KW
ME 2322	Loading Rheostat 2KW Single Phase
ME 2456	<b>Speed Control of 3 Phase Slip-Ring Induction Motor By Rotor Resistance Control</b>
	Accessories for above
ME 2456M	AC Slip-Ring Induction Motor 2HP, 3 Phase, 440V, 1500rpm with Mechanical Load Arrangement
Mars	Starter for Slip-Ring Induction Motor 2HP, 3 phase
ME 2457	<b>To Study The Speed Control of 3 phase Induction Motor by Cascading of Two Induction Motor , i.e by feeding the slip power of one motor into other motor.</b>
	Accessories for above
Mars	AC Slip-Ring Induction Motor 2HP, 3Phase, 440V, 1500rpm coupled with AC Slip-Ring Induction Motor 2HP, 3Phase, 440V, 1500rpm
Mars	Starter for Slip-Ring Induction Motor 2HP, 3 phase
ME 2458	<b>To Find Voltage Regulation of an Alternator by Zero Power Factor (z.p.z) method.</b>
	Accessories for above
MG Set	DC Shunt Motor 2HP, 220V, 8Amp, 1500rpm coupled with AC Alternator 1KVA, 3 Phase, 440V, 1500rpm
ME 2333	Resistive Lamp Load 1KW, 3 Phase
ME 2325	Inductive Load 10Amps, 3 Phase

<b>Model No.</b>	<b>Description</b>
ME 2459	<b>To Measure Negative Sequence &amp; Zero Sequence Reactance of Synchronous Machines.</b>
	Accessories for above
MG Set	DC Shunt Motor 2HP,220V,8Amp,1500rpm coupled with AC Alternator 1KVA,3 Phase,440V,1500rpm
ME 2303	Variac 10 Amps Single Phase
ME 2450	<b>Electrical Machine Trainer (Complete Setup)</b>
ME 2450A	<b>Electrical Machine Trainer</b>
<b>MICROWAVE LAB TRAINING MODULES</b>	
<b>Microwave Experimental Trainers</b>	
ME 6000	Experiments of Reflex Klystron
ME 6010	Experiments on Gunn Diode
ME 6020	Experiments to measure the Polar Pattern & gain characteristics of the antenna
ME 6030	Experiment to measure dielectric constant of Solids & Liquid and to measure Phase Shift & 'Q' of a cavity.
ME 6040	Study of Microwave components (Magic T, Directional Coupler, Isolator, Circulator)
<b>MARS Microwave Power Meters</b>	
OP 6000	Microwave Power Meters 8.2GHz ~ 12.4GHz
OP 6000A	Microwave Power Meters 10MHz ~ 18GHz
<b>Microwave Components &amp; Power Supplies</b>	
ME 6000KP	Klystron power supply ( Square & Saw Wave Digital readout )
ME 6000GP	Gunn power supply ( Digital )
ME 6000VS	VSWR Meter Solid State
ME 6101	BNC Cable
ME 6102	Circulator
ME 6103	Circular to Rectangular wave guide transition
ME 6104	Coaxial to W/G Adopter
ME 6105	Conical antenna
ME 6106	Cooling fan
ME 6107	Cross directional coupler
ME 6108	Detector – IN-23
ME 6109	Detector mount with detector
ME 6110	Dielectric antenna

Model No.	Description
ME 6111	E H Tuner
ME 6112	E H Tuner precision with micrometer
ME 6113	E Plane bend
ME 6114	E Plane tee
ME 6115	Fixed attenuator ( 3,6,10 db ) Any One
ME 6116	Frequency meter ( Direct reading )
ME 6117	Frequency meter ( Micrometer type )
ME 6118	Gunn oscillator
ME 6119	H Plane bend
ME 6120	H Plane tee
ME 6121	Isolator
ME 6122	Klystron mount
ME 6123	Klystron tube
ME 6124	Liquid Dielectric Cell
ME 6125	M H D Coupler ( 3,10,20 db) Any One
ME 6126	Magic tee
ME 6127	Matched termination
ME 6128	Microwave Cavity
ME 6129	Movable short
ME 6130	Movable short precision with micrometer
ME 6131	Parabolic disc (with dipole feed)
ME 6132	Phase shifter
ME 6133	Pick up horn
ME 6134	Pin Modulator
ME 6135	Pyramidal horn ( Gain 16 db )
ME 6136	Pyramidal horn ( Gain 22 db )
ME 6137	Radiation pattern turn table
ME 6138	Sectoral horn – E plane
ME 6139	Sectoral horn – H plane
ME 6140	Dielectric Samples (Solid)
ME 6141	Slide Screw Tuner
ME 6142	Slide screw tuner precision with micrometer
ME 6143	Sliding termination precision
ME 6144	Slot antenna – Narrow wall
ME 6145	Slot antenna- Broad wall

<b>Model No.</b>	<b>Description</b>
ME 6146	Slotted section with probe carriage
ME 6147	Solid Dielectric Cell
ME 6148	Stand
ME 6149	Tripod stand
ME 6150	Tunable probe
ME 6151	Variable attenuator
ME 6152	Wave guide twist
ME 6153	Fixed short
ME 6154	Wave guide bend 90 Degree
ME 6155	Wave guide cavity
ME 6160	Smith Charts (Set of 100 Sheets)
ME 6170	N-N Coaxial cable
<b><u>TERMS OF BUSINESS</u></b>	
<p>* This price list cancel all previous price lists of Mars EdPal Instruments Pvt. Ltd.</p> <p>* Prices are Net, Ex-works Ambala Cantt, Packing, Forwarding &amp; Freight Charges are extra as actual.</p> <p>* VAT is 12.5% (plus surcharge@5% on VAT) in state of Haryana or as applicable.CST will be charged @2% against form 'C 12.5% or as applicable at the time of Invoice.</p> <p><b>Payment Terms</b></p> <p>* 25% of the order value along with purchase order, balance against DOD or through Bank.</p> <p>* No interest is payable by Mars EdPal Instruments Pvt. Ltd. On payment received as advance from the customer.</p> <p><b>Dispatch</b></p> <p>* Mars EdPal Instruments Pvt. Ltd. Will make every attempt to deliver/dispatch the various items included in the purchase order within 4-6 weeks after technically and commercially clearance of purchase order through Cargo/Road Transport/Railway which ever is suitable (Customer can specify mode of transport in Purchase order).</p> <p><b>Jurisdiction : All disputes are subject to Ambala jurisdiction only.</b></p>	