

About Us

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PRODUCT GUIDE 2026-27

Electronics Electrical Physics

TECHNOLOGY THAT WORKS FOR YOU !



- Next- Gen Embedded Systems And VLSI Lab
- Artificial Intelligence (Ai), AIoT, IoT
- Communication & RF Lab Training System
- Advanced Fiber Optic & Optical Communication
- Educational Training Workstation/ Workbench
- Educational Laboratory Trainers



MIND TEK

ENGINEERING SOLUTIONS

ABOUT US | COMPLETE LABORATORY SOLUTIONS

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I.T.I | Polytechnic | Engineering College | Research Institutions | University & School

MIND TEK ENGINEERING SOLUTIONS

MANUFACTURER & SUPPLIER OF EDUCATIONAL LABORATORY SOLUTIONS

PRODUCT GUIDE

2026–27

Educational Laboratory Trainers • Equipment • Training Systems • Industrial Automation

OUR KEY PRODUCT CATEGORIES

- ELECTRONICS
- ELECTRICAL
- PHYSICS

AI & AIoT | DSP & Embedded Systems | Electronics & Communication
Electrical & Power Electronics | PLC, HMI & Industrial Automation
Renewable Energy | RF / Microwave / Antenna | VLSI
Fiber Optics | Drone Technology | Mechanical & Civil Laboratory Solutions

FOR PROFESSORS, COLLEGE & INSTITUTIONS

Technical Consultation • Product Selection Assistance • Customized Solutions • Budgetary Quotations •
Tender Specification Support • Customized Datasheets

We offer **standard and customized laboratory solutions**

Share your laboratory requirement with us — from a single trainer or equipment to a complete laboratory setup

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PROD. CODE	NAME OF EXPERIMENT ✓ Description/ Product name	PRICE ₹ (INR)/ Unit
Next-Gen Embedded Systems & VLSI Lab		
EMBEDDED SYSTEM DESIGN • PROCESSOR • CONTROLLER (DSP, VLSI, PIC and ARM)		
<u>Digital Signal Processing (DSP) Trainers/ Development Board</u>		
MT-E-PLDSP	TMS320C6745-Based DSP Trainer Kit	POR
MT-E-48DSP	Digital Signal Processing Board (TMS 320C6748)	POR
MT-E-48DSP	ADVANCED Digital Signal Processing Board (TMS 320C6748)	POR
MT-E-45DSP	Digital Signal Processing Board (TMS 320C6745)	POR
MT-E-138DSP	OMAPL138 – DSP +ARM9 Processor Development Board	POR
MT-DSP5515	Educational Practice Board for EPB_C5515	POR
MT-E-48DSP-EPB	All in one DSP Lab (Educational Practice Board for EPB_C6748, Voltage Protection Kit, CCD Camera, All in One General Purpose Board, Daughter board for All in one General Purpose Board , Stepper Motor, DC Motor, JTAG Emulator XDS100_V2, Power supply, GSM Module, Finger Print Module, RFID Module, Cable Accessory Set , Workbook)	POR
	1. Stepper Motor set of 5 with one set of EPB_C6748	
	2. DC Motor set of 5 with one set of EPB_C6748	
	3. GSM Module set of 5 with one set of EPB_C6748	
	4. Finger Print Module set of 5 with one set of EPB_C6748	
	5. RFID Module set of 5 with one set of EPB_C6748	
	6. Voltage Protection Kit set of 5	
	7. All in One General Purpose Board set of 5	
	8. Daughter board for All in one General Purpose Board set of 5	
	9. JTAG Emulator XDS100_V2, Cable Accessory set of 5	
	10. CCD Camera, Power Supply set of 5	
MT-E-2000DSP	DSP Lab for TI C2000 Platform (Educational Practice Board for EPB_28335, JTAG Emulator XDS100_V2 (Compatible with CCSv5 and above only), Power supply, Cable Accessory Set , Workbook)	POR
	1. JTAG Emulator XDS100_V2 set of 3 with one set of EPB_28335	
	2. Power supply set of 3 with one set of EPB_28335	
	3. Cable Accessory Set of 3 with one set of EPB_28335	
MT-E-28335DSP-IM	DSP Lab for Induction Motor Control & Drives (Educational Practice Board for TMS320F28335, USB JTAG Emulator for EPB28335 (XDS560), USB JTAG Emulator for EPB28335 (XDS100V2), PWM Isolator Module, SMPS Power Supply for PWM Isolator Kit, 3phase (1 HP) Inverter Stack Module, 1HP 3 Phase, 415V, 1500 RPM Induction Motor with Encoder , DC generator (1HP, 1500 RPM) with Load Panel, Sensor Interfacing Kit - 28335 (With 3 Current Sensor), Sensor Interfacing Kit - 28335 (With 3 Voltage Sensor SMPS Power Supply for Sensor Interfacing Kit), Panel Mounting for Sensor Interfacing Kit, Signal Conditioning Box, Code Composer Studio-v5 or later-Open Source, Workbook)	POR
	1. Set JTAG Emulator (XDS100V2) set of 2 with one set of EPB28335	
	2. JTAG Emulator (XDS560) set of 1 with one set of EPB28335	
	3. Cable Accessory set of 3 with one set of EPB28335	

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	4. PWM Isolator Module 5. SMPS Power Supply for PWM Isolator Kit 6. 3phase (1 HP) Inverter Stack Module 7. 1HP 3 Phase, 415V, 1500 RPM Induction Motor with Encoder 8. DC generator (1HP, 1500 RPM) with Load Panel 9. Sensor Interfacing Kit (With 3 Current Sensor) 10. Sensor Interfacing Kit (With 3 Voltage Sensor) 11. Panel Mounting for Sensor Interfacing Kit 12. Signal Conditioning Box 13. Power Supply 14. Modules	
MT-E-28335DSP-BLDC	DSP Lab for BLDC Motor Control (Educational Practice Board for TMS320F28335, USB JTAG Emulator for EPB28335 (XDS100_V2), BLDC Interfacing Kit, BLDC Motor, SMPS power supply for BLDC Kit, Code Composer Studio- V5.0 or later- open source, Workbook) 1. TMS320F28335 with JTAG Emulator with cable accessory 2. BLDC Motor with accessory 3. BLDC Interfacing Kit with SMPS power supply	POR
MT-E-OrinNano	Advance Image/Video Processing Lab - ORIN Nano (Embedded GPU Board for Advance Image/Video Processing - Jetson ORIN Nano - 8GB, SSD -128GB with Eco System Configuration Charges having preloaded Eco System & Documents,USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch) 1. Embedded GPU Board for Advance Image/Video Processing - Jetson ORIN Nano - 8GB 2. SSD -128GB with Eco System Configuration, Charges having preloaded Eco System & Documents,USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch)	POR
MT-E-Xavier NX8	Advance Image/Video Processing Lab - Xavier NX (Embedded GPU Board for Advance Image/Video Processing - Jetson Xavier NX - 8GB, SSD -128GB with Eco System Configuration Charges having preloaded Eco System & Documents,USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch) 1. Embedded GPU Board for Advance Image/Video Processing - Jetson Xavier NX- 8GB 2. SSD -128GB with Eco System Configuration, Charges having preloaded Eco System & Documents 1. USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch), Power supply & Accessory	POR
MT-E-Xavier NX16	Advance Image/Video Processing Lab - Xavier NX (Embedded GPU Board for Advance Image/Video Processing - Jetson Xavier NX - 16GB, SSD -128GB with Eco System Configuration Charges having preloaded Eco System & Documents,USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch) 1. Embedded GPU Board for Advance Image/Video Processing - Jetson Xavier NX- 16GB 2. SSD -128GB with Eco System Configuration, Charges having preloaded Eco System & Documents 3. USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch), Power supply 4. Accessory	POR
MT-E-Orin NX8	Advance Image/Video Processing Lab - ORIN NX (Embedded GPU Board for Advance Image/Video Processing - Jetson ORIN NX - 8GB, SSD -128GB with Eco System Configuration Charges having preloaded Eco System & Documents,USB Keyboard, USB	

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	Mouse, USB Camera, HDMI Screen (18.5 Inch)	
	1. Embedded GPU Board for Advance Image/Video Processing - Jetson Orin NX- 8GB	POR
	2. SSD -128GB with Eco System Configuration, Charges having preloaded Eco System & Documents	
	3. USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch), Power supply & Accessory	
MT-E-Orin NX16	Advance Image/Video Processing Lab - ORIN NX (Embedded GPU Board for Advance Image/Video Processing - Jetson ORIN NX - 16GB, SSD -128GB with Eco System Configuration Charges having preloaded Eco System & Documents,USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch)	
	1. Embedded GPU Board for Advance Image/Video Processing - Jetson Orin NX- 16GB	POR
	2. SSD -128GB with Eco System Configuration, Charges having preloaded Eco System & Documents	
	3. USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch), Power supply	
	4. Accessory (MT-E-Orin NX16)	
MT-E-Xavier AGX - 32	Advance Image/Video Processing Lab - Xavier AGX (Embedded GPU Board for Advance Image/Video Processing - Jetson Xavier AGX - 32GB, SSD -128GB with Eco System Configuration Charges having preloaded Eco System & Documents,USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch)	POR
MT-E-ORIN AGX - 64	Advance Image/Video Processing Lab - ORIN AGX (Embedded GPU Board for Advance Image/Video Processing - Jetson ORIN AGX - 64GB, SSD -128GB with Eco System Configuration Charges having preloaded Eco System & Documents,USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch)	POR
MT-E-AGX THOR-128	Advance Image/Video Processing Lab - AGX THOR (Embedded GPU Board for Advance Image/Video Processing - Jetson AGX THOR - 128GB, SSD -128GB with Eco System Configuration Charges having preloaded Eco System & Documents,USB Keyboard, USB Mouse, USB Camera, HDMI Screen (18.5 Inch)	POR
<u>Very Large-Scale Integration (VLSI) Trainers/ Development Board</u>		
MT-E-VLCPDL	CPLD Trainer Kit	POR
MT-E-VLSP7	Spartan-7 SoM with Basic Carrier Board	POR
MT-E-VL-Z	Zynq 7000 Series SoM with Advanced Carrier Board	POR
MT-E-VL-ZU	Zynq UltraScale+ SoM with Carrier Test Board	POR
MT-E-VL-KRIA	Zynq UltraScale+ MPSoC Based Vision AI Starter Kit	POR
MT-E-SP7	Spartan 7 Development Board	POR
MT-E-35T	ARTIX 7 Development Board	POR
MT-E-100T	ARTIX 7 Development Board	POR

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Processor- Controller- PIC- ARM Trainers/ Development Board

MT-E-PL-ARM	LPC2478 ARM7 Trainer Kit	POR
MT-E-WM	INTERFACE MODULES WITH UART: Bluetooth, Zigbee, GSM, Fingerprint Module , Wifi, GPS INTERFACE MODULE WITH SPI BUS: RFID, LORA	POR
MT-E-PL-STM	STM32 Series Cortex-M7 Based SoM with Advanced Carrier Board	POR
MT-E-51-CPU	8051 Microcontroller Project /CPU Board	POR
MT-E-51 – Pro	8051 Microcontroller Development Board	POR
MT-E-51 –UNI	8051 Microcontroller Development Board	POR
MT-E-PIC 455	PIC 18F455 Series Microcontroller Development Board	POR
MT-E-PIC 458	PIC 18F458 Series Microcontroller Development Board	POR
MT-E-PIC 16F	PIC 16F877 Series Microcontroller Development Board	POR
MT-E-430	MSP 430 Development Board	POR
MT-E-Duino P	ATMEGA 328 Development Board	POR
MT-E-2148	ARM7 (LPC2148) Development Board	POR
MT-E-2129	ARM7 (LPC 2129) Development Board	POR
MT-E-2148-P	ARM7 (LPC 2148) Development Board	POR
MT-E-2148 L	ARM7 CPU Development Board	POR
MT-E-1768	ARM CORTEX M3 (LPC 1768) Development Board	POR
MT-E-8051ML	8051 Micro-controller Lab (Educational Practice Board for 8051, All in One General Purpose Board, Stepper Motor, DC Motor, GLCD 128x64, GSM Module, Finger Print Module, RFID Module,Interactive Tutor Set for 8051 (10 Users), IDE Configured for 8051 Platform, Workbook)	
	1. Stepper Motor set of 10 with 2 set of 8051	POR
	2. DC Motor set of 10 with 2 set of 8051	
	3. All in One General Purpose Board set of 10 with 2 set of 8051	
	4. GLCD 128x64, GSM Module, Finger Print Module, RFID Module set of 1 with 2 set of 8051	
	5. Interactive Tutor Set for 8051 (10 Users), IDE Configured for 8051 Platform with 2 set of 8051	
MT-E-PIC18FML	PIC Micro-controller Lab (Educational Practice Board for PIC18F4455, All in One General Purpose Board, Stepper Motor, DC Motor, GLCD 128x64, GSM Module, Finger Print Module, RFID Module, IDE Configured for PIC Platform, Workbook)	
	1. Stepper Motor set of 10 with 2 set of PIC18F445	POR
	2. DC Motor set of 10 with 2 set of PIC18F445	
	3. All in One General Purpose Board set of 10 with 2 set of PIC18F445	
	4. GLCD 128x64, GSM Module, Finger Print Module, RFID Module set of 1 with 2 set of PIC18F445	
	5. IDE Configured for PIC Platform with 2 set of PIC18F445	
MT-E-AVR32ML	AVR Micro-controller Lab (Educational Practice Board for AVR ATmega32, All in One General Purpose Board, Stepper Motor, DC Motor, GLCD 128x64, GSM Module, Finger Print Module, RFID Module, IDE Configured for AVR Platform, Workbook)	
	1. Stepper Motor set of 10 with 2 set of AVR ATmega32	POR
	2. DC Motor set of 10 with 2 set of AVR ATmega32	
	3. All in One General Purpose Board set of 10 with 2 set of AVR ATmega32	
	4. GLCD 128x64, GSM Module, Finger Print Module, RFID Module set of 1 with 2 set of AVR ATmega32	
	5. IDE Configured for AVR Platform with 2 set of AVR ATmega32	

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MT-E-A8051ML	Advance 8051 Micro-controller Lab (Educational Practice Board for 8051F340, All in One General Purpose Board, Stepper Motor, DC Motor, GLCD 128x64, GSM Module, Finger Print Module, RFID Module,Interactive Tutor Set for 8051 (10 Users), IDE Configured for 8051 Platform, Workbook)	
	1. Stepper Motor set of 10 with 2 set of 8051F340	POR
	2. DC Motor set of 10 with 2 set of 8051F340	
	3. All in One General Purpose Board set of 10 with 2 set of 8051F340	
	4. GLCD 128x64, GSM Module, Finger Print Module, RFID Module set of 1 with 2 set of 8051F340	
	5. Interactive Tutor Set for 8051 (10 Users), IDE Configured for 8051 Platform with 2 set of 8051F340	
MT-E-A7BEL	Basic Embedded Lab (Educational Practice Board for ARM7 LPC2148, All in One General Purpose Board, Stepper Motor, DC Motor, TFT/Touch Screen Interfacing Kit, GLCD 128x64, GSM Module, Finger Print Module, RFID Module,ARM7 tutor set, IDE Configured for ARM7 Platform, Workbook)	
	1. Stepper Motor set of 10 with 2 set of ARM7 LPC2148	POR
	2. DC Motor set of 10 with 2 set of ARM7 LPC2148	
	3. All in One General Purpose Board set of 10 with 2 set of ARM7 LPC2148	
	4. GLCD 128x64, GSM Module, Finger Print Module, RFID Module set of 1 with 2 set of ARM7 LPC2148	
	5. ARM Tutor Set, IDE Configured for ARM Platform with 2 set of ARM7 LPC2148	
6. TFT/Touch Screen Interfacing Kit, Accessory		
MT-E-ARM-M0+	Embedded Lab for ARM Cortex M0+ (Educational Practice Board for ARM Cortex-M0+, All in One General Purpose Board, Stepper Motor, DC Motor, GLCD 128x64, GSM Module, Finger Print Module, RFID Module, Zigbee/Xbee_Module Set , Arduino IDE for Cortex Platform, Workbook)	
	1. Stepper Motor set of 10 with 2 set of ARM Cortex-M0+	POR
	2. DC Motor set of 10 with 2 set of ARM Cortex-M0+	
	3. All in One General Purpose Board set of 10 with 2 set of ARM Cortex-M0+	
	4. GLCD 128x64, GSM Module, Finger Print Module, RFID Module set of 1 with 2 set of ARM Cortex-M0+	
	5. Zigbee/Xbee_Module Set of 2, IDE Configured for Cortex Platform with 2 set of ARM Cortex-M0+	
MT-E-ARM-M33	Embedded Lab for ARM Cortex M33 (Educational Practice Board for ARM Cortex-M33, All in One General Purpose Board, Stepper Motor, DC Motor, GLCD 128x64, GSM Module, Finger Print Module, RFID Module, Zigbee/Xbee_Module Set , Arduino IDE for Cortex Platform, Workbook)	
	1. Stepper Motor set of 10 with 2 set of ARM Cortex-M33	POR
	2. DC Motor set of 10 with 2 set of ARM Cortex-M33	
	3. All in One General Purpose Board set of 10 with 2 set of ARM Cortex-M33	
	4. GLCD 128x64, GSM Module, Finger Print Module, RFID Module set of 1 with 2 set of ARM Cortex-M33	
	5. Zigbee/Xbee_Module Set of 2, IDE Configured for Cortex Platform with 2 set of ARM Cortex-M33	

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MT-E-ARM-M4	Embedded Lab for ARM Cortex M4 (Educational Practice Board for ARM Cortex-M4, All in One General Purpose Board, Stepper Motor, DC Motor, GSM Module, Finger Print Module, RFID Module, Zigbee/Xbee Module Set , Arduino IDE for Cortex Platform, Workbook)	POR
	1. Stepper Motor set of 10 with 2 set of ARM Cortex-M4	
	2. DC Motor set of 10 with 2 set of ARM Cortex-M4	
	3. All in One General Purpose Board set of 10 with 2 set of ARM Cortex-M4	
	4. GSM Module set of 1 with 1 set of ARM Cortex-M4	
	5. Zigbee/Xbee Module Set of 4, IDE Configured for Cortex Platform with 1 set of ARM Cortex-M4	
	6. Finger Print Module set of 1 with 1 set of ARM Cortex-M4	
	7. RFID Module set of 1 with 1 set of ARM Cortex-M4	
MT-E-ARM-RTOS	Embedded RTOS Lab for ARM Platform	POR
	Educational Practice Board for ARM7 LPC2148- 5 No	
	Educational Practice Board for ARM Cortex-M4- 5 No	
	All in One General Purpose Board- 5 No	
	Stepper Motor- 5 No	
	DC Motor- 5 No	
	RTOS Analyzer Tool- 1 No	
	IDE Configured for ARM7 & Cortex Platform- 1 No	
	Workbook- 1 No	
MT-E-ARM-SL	Embedded Sensor Lab for ARM Platform	POR
MT-E-ARM-32	Embedded Lab for ESP32	POR
MT-E-ARM66	Embedded Lab for NodeMCU-ESP8266	POR
MT-E-AU	Embedded Lab for Arduino Uno	POR
MT-E-RPi3b	Embedded Lab for Raspberry Pi3B	POR
MT-E-RPi4-1g	Embedded Lab for Raspberry Pi4 1GB	POR
MT-E-RPi4-2g	Embedded Lab for Raspberry Pi4 2GB	POR
MT-E-RPi4-4g	Embedded Lab for Raspberry Pi4 4GB	POR
MT-E-RPi4-8g	Embedded Lab for Raspberry Pi4 8GB	POR
MT-E-RPi5-1g	Embedded Lab for Raspberry Pi5 1GB	POR
MT-E-RPi5-2g	Embedded Lab for Raspberry Pi5 2GB	POR
MT-E-RPi5-4g	Embedded Lab for Raspberry Pi5 4GB	POR
MT-E-RPi5-8g	Embedded Lab for Raspberry Pi5 8GB	POR
MT-E-RPi516g	Embedded Lab for Raspberry Pi5 16GB	POR
MT-E-EMB-A	Advance Embedded Lab	POR
MT-E-EMB-LP	Embedded Lab For Linux Porting	POR



Next-Gen Connected Intelligence & Edge Artificial Intelligence (AI) Lab

AIOT • AI • IOT • WSN

AI and Artificial Intelligence of Things (AIoT Laboratory Setup)

MT-E-AIoT-A	AIOT Lab (Detailed Whole Lab Setup (IOT Trainer Kit - Cortex-M4, IOT Trainer Kit - Cortex-M0+, IOT Trainer Kit - Cortex-M33 IOT Trainer Kit - ESP32 with Daughter board, IOT Trainer Kit - Node MCU with Daughter board, IOT Trainer Kit - Arduino Uno with Daughter board & ESP8266, IOT Trainer Kit - Raspberry Pi with Daughter board, IOT Trainer Kit - Preconfigured AI Node with power supply, All in One General Purpose Board, IOT Gateway, Bluetooth Module, Router, IOT sensor Set, RFID Module, Finger Print Module, Stepper Motor, DC Motor, Amazon Echo device with AWS configuration, WSN/Zigbee Trainer Kit, Lora Trainer Kit, IDE Configured for Cortex Platform, Cloud IoT Integrated Development Environment, Arduino IDE , Workbook Example Manual with source code (Softcopy) 1. IOT Trainer Kit - Cortex-M4 - 5No. 2. IOT Trainer Kit - Cortex-M0+ - 5No. 3. IOT Trainer Kit - Cortex-M33 - 5No. 4. IOT Trainer Kit - ESP32 with Daughter board - 5No. 5. IOT Trainer Kit - Node MCU with Daughter board - 5No. 6. IOT Trainer Kit - Arduino Uno with Daughter board & ESP8266- - 5No. 7. IOT Trainer Kit - Raspberry Pi with Daughter board- - 5No. 8. Preconfigured AI Node with power supply- - 1No. 9. All in One General Purpose Board- 10No. 10. IOT Gateway- 1No. 11. Bluetooth Module -1No. 12. Router-1No. 13. IOT sensor Set -1No. 14. RFID Module -1No. Configured for Cortex Platform 15. Finger Print Module -1No.Configured for Cortex Platform 16. Stepper Motor - 2No.Configured for Cortex Platform 17. DC Motor -2No. Configured for Cortex Platform 18. Amazon Echo device with AWS configuration -1No. 19. WSN/Zigbee Trainer Kit -1No. Configured for Cortex Platform 20. Lora Trainer Kit -1No. Configured for Cortex Platform 21. IDE Configured for Cortex Platform -1No. 22. Cloud IoT Integrated Development Environment -1No. 23. Arduino IDE -1No. 24. Workbook Example Manual with source code (Softcopy) -1No.	POR
MT-E-AIoT-B	AIOT Lab (5 User -M4 & M0+ Based) (IOT Trainer Kit - Cortex-M4, IOT Trainer Kit - Cortex-M0+, Arduino Uno with ESP8266, Preconfigured AI Node with power supply, All in One General Purpose Board, IOT Gateway, Bluetooth Module, Router, Portable Sensor Kit, IOT Sensor Kit, RFID Module, Finger Print Module, Stepper Motor, DC Motor, Amazon Echo device with AWS configuration, WSN/Zigbee Trainer Kit, Lora Trainer Kit, IDE Configured for Cortex Platform, Workbook (Softcopy)	

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	1. IOT Trainer Kit - Cortex-M4 - 5No. 2. IOT Trainer Kit - Cortex-M0+ - 5No. 3. IOT Trainer Kit - Arduino Uno with ESP8266- 5No. 4. Preconfigured AI Node with power supply- 1No. 5. All in One General Purpose Board- 10No. 6. IOT Gateway- 1No. 7. Bluetooth Module -1No. 8. Router-1No. 9. Portable sensor kit -1No. 10. IOT Sensor Kit- 1No. 11. RFID Module -1No. 12. Finger Print Module -1No. 13. Stepper Motor - 2No. 14. DC Motor -2No. 15. Amazon Echo device with AWS configuration -1No. 16. WSN/Zigbee Trainer Kit -1No. Configured for Cortex Platform 17. Lora Trainer Kit -1No. Configured for Cortex Platform 18. IDE Configured for Cortex Platform -1No. 19. Workbook (Softcopy) -1No.	POR
MT-E-AI-Lab	Artificial Intelligence (AI) University program for Advance Deep Learning Lab Setup	POR
<u>Internet of Things (IoT Laboratory Setup)</u>		
MT-E-IoT	IOT Lab (5 User - Cortex-M0+ (Arduino) Based) (IOT Trainer Kit - Cortex-M0+, Preconfigured AI Node with power supply, All in One General Purpose Board, IOT Gateway, Router, IOT Sensor Kit, RFID Module, Finger Print Module, Stepper Motor, DC Motor, Amazon Echo device with AWS configuration, Workbook (Softcopy)) 1. IOT Trainer Kit - Cortex-M0+ - 5No. 2. Preconfigured AI Node with power supply- 1No. 3. All in One General Purpose Board- 10No. 4. IOT Gateway- 1No. 5. Bluetooth Module -1No. 6. Router-1No. 7. RFID Module -1No. Configured for Cortex Platform 8. Finger Print Module - 1 No. Configured for Cortex Platform 9. Stepper Motor - 2No. 10. DC Motor -2No. 11. Amazon Echo device with AWS configuration -1No. 12. Workbook (Softcopy) -1No.	POR
MT-E-WSN	Wireless Sensor and IoT Network Laboratory (1 Master x 5 Nodes)	POR
MT-E-Mega16	ATMEGA 16 IOT Development Board	POR
MT-E-328-Pr	ATMEGA 328 IOT Development Board	POR
MT-E-2148IoT	ARM7 Based IOT Development Board	POR
MT-E-1768Pr	ARM CORTEX M3 (LPC 1768) IoT Development Board	POR
MT-E-32F407	ARM Cortex M4 (STM32F407) IOT Development Board	POR
MT-E-32F05p	ARM Cortex M0 (STM32F05) IOT Development Board	POR
MT-E-IOT-Uno	ARDUINO Based IOT Development Trainer	POR
MT-E-IOT-R2	Raspberry Pi Based IOT Development Trainer	POR

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MT-E-IOT-R4	Raspberry Pi Based IOT Development Trainer	POR
MT-E-IOT-R5	Raspberry Pi Based IOT Development Trainer	POR
MT-E-ESP32	ESP32 Based IOT Development Trainer	POR
MT-E-IOT-DS	IoT Development System (IoT- 01 Gateway, ESP32 based WiFi Sensor Node, ESP32 Based Bluetooth Sensor Node, GSM Sensor Node, RS485 Sensor Node, Smart Actuator Node, Sensors for IOT Application, Cloud based IoT Software)	POR
	1. IoT- 01 Gateway	
	2. WiFi Sensor Node	
	3. Bluetooth Sensor Node	
	4. GSM Sensor Node	
	5. RS485 Sensor Node	
	6. Smart Actuator Node	
	7. Sensors for IoT Application	
	8. Cloud based IoT Software	
MT-E-IOT-LC	IoT Application Trainer	

Standard Laboratory Trainers/ Development Board

MT-E069	AVR Microcontroller Trainer	POR
MT-E097	8051 Microcontroller Trainer (Assembly Language LED Model)	POR
MT-E097A	8051 Microcontroller Trainer (Development Board Low Cost)	POR
MT-E097B	8051 Microcontroller Trainer (Development Board)	POR
MT-E097C	8051 Microcontroller Trainer (Assembly Language LCD Model)	POR

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COMMUNICATION & RF LAB TRAINING SYSTEM

Analog • Digital • Mobile • Microwave • Antenna • Radar

MT-E-ACS	Analog Communication Training System (Transmitter & Receiver)	POR
	Power Supply and Accessories for MT-E-ACT	POR
MT-E-DCSB	Basic Digital Communication Training System	POR
	Power Supply and Accessories for MT-E-DCTB	POR
MT-E-DCSA	Advanced Digital Communication Training System	POR
	Power Supply and Accessories for MT-E-DCTA	
MT-E-SDRB	Wireless Communication Trainer/ Software Defined Radio Kit with Computer (SDR Kit, Host Computer)	
	SDR Kit	POR
	Host PC with Pre-Installed and Configured GNU Radio Software Defined Radio (SDR) Framework and Signal Processing Environment	
MT-E-SDRA	MIMO (2x2) Software Defined Radio Kit with Computer (MIMO SDR KIT, Host Computer)	
	MIMO SDR Kit	POR
	Host PC with Pre-Installed and Configured GNU Radio Software Defined Radio (SDR) Framework and Signal Processing Environment	POR
MT-E539	CDMA Trainer (FHSS & DSSS) Basic	POR
MT-E707	3G Mobile Phone Trainer	POR
MT-E707A	4G Mobile Phone Trainer	POR
MT-E707B	5G Mobile Phone Trainer	POR
MT-E707G	GSM/ Mobile Training System	POR
MT-E671	LAN Trainer/ Hardware Network Trainer (Supply with Software)	POR
MT-E507	Satellite Communication Trainer	POR
	Accessories of Satellite Communication Trainer	
MT-E5061	ANTENNA MEASUREMENT SYSTEM with S-Parameter Measurement Module (4GHz Motorised Antenna Training System, Manual and Software Controlled, 22 Antenna set as per user selection, PC Based 6GHz Vector Network Analyser for S parameter experiments) List of Experiments ● Measure the variation of field strength /inverse square law ● Prove the reciprocity theorem of antenna ● Plot Radiation pattern of all Wired Antenna. ● Plot the Radiation pattern of all Planar (Microstrip) Antenna ● Plot Radiation pattern of all Array Antenna ● Plot Radiation pattern of all Reflector Antenna. ● Plot Radiation pattern of all Aperture Antenna. ● Measure co-polarization ,cross polarization. ● Measurement circularly polarized antennas. ● Measurement of Front to back (F/B) ratio of yagi-uda antenna ● Measurement of 3 dB beamwidth of horn antenna. ● Side lobe level measurement. ● Comparative study of different antenna type and its radiation pattern. ● Additional Experiments Using Vector Network Analyser (VNA) ● Return Loss and VSWR measurement of antennas with broadband freq range.	

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	● Bandwidth analysis of different antennas. ● Comparative study of different antenna. ● Parameters like impedance, bandwidth and VSWR. ● Finding operating frequency of an antennas. ● Phase measurement of antennas. ● Experiments Using Spectrum Analyser ● Gain measurement of antennas. ● Measure the variation of received power vs distance.	
	1. 4 GHz Antenna Trainer	POR
	2. Antenna Accessories (Universal Stand- Transmitter & Receiver)	
	3. Software and Other Accessories	
	4. 1 MHz to 6 GHz Vector Network Analyzer Module	
	5. Calibration kit Accessories of VNA	
	6. RF Cable and other Accessories	
MT-E5062	Motorised Transmission Line Training System (Standing wave , Transmission Line Parameter, Incident and Reflected Wave, Smith Chart and S Parameter) List Of Experiments: ● Experiment for Standing Wave Characterization ● Experimentation of OPEN SHORT LOAD characterization ● Experiment for S- Parameters (S11, S12, S21, S22) Measurements ● Determination of unknown frequency characterization using transmission Plotting a Normalized Impedance on the Smith Chart	
	On Board Transmission Line Standing wave	POR
	On Board Transmission Line Parameter	
	On Board Transmission Line Incident-Refl.	
	Software	
MT-E-DRT	24GHz FSK Doppler Radar Training System	
	1. Radar Trainer	POR
	2. Other Accessroies for MT-E-DRT	
MT-E-RFT	RF Circuit Training System	
	1. RF Circuit Training Board	POR
	2. Other Accessroies for MT-E-RFT	
MT-E-MCT	3GHz Microstrip Component Training System	
	1. Microstrip Component Training Board	POR
	2. Other Accessroies for MT-E-MCT	
MT-E-EMFs	EMF Module Simulation Software (EMF Module is for teaching Basic Electromagnetic Concepts)	
	EMF Module Simulation Software - 10 User Latest Version, Perpetual Licenses	POR
	EMF Module Simulation Software - 20 User Latest Version, Perpetual enses	POR
MT-E-HFs	HF Module Simulation Software (HF Module is for teaching Microwave Design and search)	
	HF Module Simulation Software - 10 User Latest Version, Perpetual Licenses	POR
	HF Module Simulation Software - 20 User Latest Version, Perpetual enses	POR

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Advanced Fiber Optic & Optical Communication Laboratory

MT-E-AP	Advanced Fiber Optic Communication Training Kit	POR
MT-E-GP	Fiber Optic Trainer Kit for Glass and Plastic Fiber	POR
MT-E-BP	Fiber Optic Communication Trainer Kit	POR
MT-E-OFC	ADVANCED OPTICAL FIBER COMMUNICATION TRAINING SYSTEMS (Building Block of an OTDR/WDM/Chromatic Dispersion and Optical Network should consist of the following 4 Modules and an Optical Power Meter)	
	1. Dual Wavelength (1310nm & 1550nm) LASER Source and Detector Module with inbuilt Pulse generator and Driver for Analog and Digital Transmission	POR
	Cable and Other Accessories for module Dual Wavelength	
	2. Single Mode Optical Glass Fiber Module in a casing of Length 100 Mts, 500 Mts& 1000 Mts	
	Cable and Other Accessories for module Single Mode Fiber	
	3. Chromatic Dispersion Module Singlemode, 25Km Fiber	
	Cable and Other Accessories for module Chromatic Dispersion	
	4. Passive Component Module in a casing consisting of Coupler, Isolator, Attenuator and 2 X WDM	
	Cable and Other Accessories for module Passive Component	
	5. Optical Power Meter	
MT-E-CW	Coarse WDM and Bragg Grating Module (This Bench Top Module implements CWDM and demonstrate the following of Add-Drop of Channel in Optcial Network)	
	On Board Characterise of Components	POR
	On Board Four DFB LASERS and Four Detectors	
	On Board 1x4 MUX	
	On Board OADM using FBG and Optical Circulator	
	LabView Based GUI to control the system	
MT-E-ED	Erbium-Doped Fiber Amplifier Module (This Bench Top EDFA Module enables student to experimentally investigate the principles and characteristics of EDFA in C Band (1530nm - 1565 nm))	
	On Board Laser Diode	POR
	On Board Pump Laser	
	On BoardPump Laser Driver	
	On Board Optical Detector	
	On Board WDM	
	On Board Erbium Doped Fiber	
	On Board Optical Filter Module	
	Software	
MT-E-OTDR	Optical Time Domain Reflectometer (OTDR system enables measurement and fault-location analysis in optical networks over long distances, supported by a built-in event module that simulates splices, bends, reflections, and connector losses)	POR
MT-E-OSA	Optical Spectrum Analyser	POR
MT-E-CSK	Fusion Splicing Machine with Connectorization Tool Kit (Complete Set to Skill in	

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	Connectorisation and Splicing	POR
	1. Splicing Machine with Cleaver	
	2. Connectorisation Tool Kit	
	3. Optical Power Meter and Optical Light Source	
MT-E-PHY	Physics of Fiber Optic Lab (This laboratory is designed to study the physics of fiber optics. It deals with the study of various important characteristics of optical fiber cable like numerical aperture, V number, attenuation, coupling loss and mode field diameter)	
	1. He-Ne laser source, 9 /125 micron single mode glass fiber patchcord	POR
	2. Laser to fiber coupler with Lens adjustment facility to adjust beam into core of fiber, 62.5 /125 micron multimode glass fiber patchcord	
	3. Laser to Fiber Coupler for Bare Fiber, 100/140 micron multimode glass fiber patchcord	
	4. Laser power meter with separate Sensor unit	
	5. Optical Breadboard, Optical patchcords and accessories	
	6. X-Y-Z Fiber Positioners and Rotary stage with angle rotation, Optical Fiber Cable of length 1 Km , 500 Mts and 100 Mts, Display screen	
MT-E-WAVE	Construction and Study of Mode Properties of Planar Wave-guide (Construct of single and multi-mode planar waveguides using ion exchange technique. Waveguide preparation tools such as furnace, crucible, chemicals, glassware, IR lamp, etc. provide complete solution for waveguide construction in lab. Specially designed waveguide-prism coupler holder allows easy mounting of prism waveguide assembly and efficient coupling of light.)	
	1. Optical Rail, Rail Optical Mounts, Laser Tube Holder, Laser Beam Expendor Holder, Polarizer holder	POR
	2. LASER, Single mode, multi mode waveguide, TranslationStage, Base Plate Helicoidal Post Holder, Rotational Stage	
	3. Prism, Drive mechanism, Micrometer, Prism Holder Assembly, Right Angle Prism : 10 X 10 X 10mm. +0/-0.2mm	
	4. Top Loading Furnace :Temp: 0 - 1200 0C	
	5. Crucible, , Refractive Index : >1.7, Polished Surface : Diagonal, bone and back side, Unpolished Surface : Two side surfaces.	
	6. Collimator : Galilean Construction, Substrate- Soda lime glass Ion exchange using Potassium Nitrate ion (KnO3) bath	
MT-E-MI	Michelson Interferometer Experimental Setup (Laser diode used as the light source., Precision kinematic mounts provided for optical components., Research-grade optical components used throughout the instrument., Modular design for easy assembly and alignment., Individual components can be assembled and adjusted independently)	
	1. Optical Breadboard with Support, Beamsplitter Mount, Mirror Mount with Precision Translation, Screen with Mount	POR
	2. Diode Laser with Power Supply (Green), Kinematic Laser Mount	
	3. Diode Laser with Power Supply (Red), Mirror Mount with Translation	
	4. Rotation Stage, Pressure Cell, Beamsplitter, Glass Slide, Accessories	
MT-E-MZ	Mach-Zehnder Interferometer Experimental Setup (Kinematic mounts provided for fine adjustment of optical components. Diode laser used as the light source. Laboratory-grade materials used with high corrosion resistance. Research-quality optical components for high accuracy and reliability.)	
	1. Optical Breadboard with Support, Beamsplitter Mount, Mirror Mount with Precision Translation, Screen with Mount	POR
	2. Diode Laser with Power Supply (Green), Kinematic Laser Mount	
	3. Diode Laser with Power Supply (Red), Mirror Mount with Translation	

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	4. Rotation Stage, Pressure Cell, Beamsplitter, Glass Slide, Accessories	
STANDARD LAB TRAINERS		
MT-E120	Speaker and Microphone Trainer	POR
MT-E120A	Frequency Response of Speaker and Microphone	POR
MT-E159	Numerical Aperture of Physics Apparatus	POR
MT-E159A	Numerical Aperture on Optical Bread Board	POR
MT-E160A	Analog Optical Fiber Trainer	POR
MT-E160B	Digital Optical Fiber Trainer	POR
MT-E160C	Analog and Digital Optical Fiber Communication Trainer	POR
MT-E160D	Advanced Optical Fiber Communication Trainer	POR
MT-E160E	Analog and Digital Optical Fiber Communication Trainer (Eye Patter and BER)	POR
MT-E160F	Laser Fiber Optic Trainer	POR
MT-E312	Optical Fiber Characterization on Optical Bread Board	POR
MT-E312(a)	Accessories & Components of Optical Fiber Characterization on Optical Bread Board	POR
MT-E312B	Optical Fiber Characterization Trainer for Physics	POR
MT-E449	Frequency Response of Optical Fiber at Different Frequency (1MHz)	POR
MT-E449A	Frequency Response of Optical Fiber at Different Frequency (2MHz)	POR
MT-E477	Fiber Optic for Physics (Bending Loss, Attenuation Loss and Numerical Aperture)	POR
MT-E477A	Fiber Optic for Physics (Bending, Attenuation Loss ,Num. Aperture & Speed of Light)	POR
MT-E477B	Laser Fiber Optic Trainer (Laser Based)	POR
MT-E449	Frequency Response of Optical Receiver at Different Bandwidth	POR
MT-E449A	Frequency Response of Optical Receiver at Different Bandwidth (2MHz)	POR

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Next-Gen Educational Training Workstation/ Workbench

Hands-on Learning • Practical Training • Faculty Demonstration

- **PLC AUTOMATION AND DRIVE CONTROL SYSTEM TRAINING LAB**
- **ELECTRIC VEHICLE (EV) BENCH TOP SYSTEM (EV PMSM MOTOR POWERTRAIN LAB)**
- **POWER ELECTRONIC AND DRIVE WORKBENCH (for EV LAB)**
- **COMPUTER NETWORKING & IoT TRAINING WORKBENCHES**
- **AI, MACHINE LEARNING & DEEP LEARNING WORKSTATION**

MT-E-PLC LAB	PLC AUTOMATION AND DRIVE CONTROL SYSTEM TRAINING LAB (The Training System shall include: PLC with HMI Interface, Classroom Teaching Software, Application Modules to be interface with PLC, Application Module to study Temperature Control by PLC, Traffic Light Control Module, Application Module to study Conveyor Belt control by PLC, AC Induction Motor Drive Training System, AC Servo Drive Training System, 2 Days Training on Site) <table border="1"> <tr><td>1. On Board PLC</td><td rowspan="15">POR</td></tr> <tr><td>2. On Board HMI Interface</td></tr> <tr><td>3. Classroom Teaching Software</td></tr> <tr><td>4. On Board Application Module to study Temperature</td></tr> <tr><td>5. On Board Traffic Light Control Module</td></tr> <tr><td>6. On Board Application Module to study Conveyor Belt</td></tr> <tr><td>7. On Board AC Servo Drive Training System</td></tr> <tr><td>8. On Board AC Induction Motor Drive Training System</td></tr> <tr><td>9. On Board Direction control operation of motor</td></tr> <tr><td>10. On Board Manual Control Panel: Switches (Start/Stop), Potentiometer , DC Voltage Display.</td></tr> <tr><td>11. Programming Software : ISP Soft ;Communication : USB Port</td></tr> <tr><td>12. On Board Direction control operation of motor</td></tr> <tr><td>13. On Board AC Drive (VFD)</td></tr> <tr><td>14. On Board Manual Control Panel : Push buttons (start/stop/Jog) and speed potentiometer.</td></tr> <tr><td>15. On Board Programmable motor parameters Overload & fault protection</td></tr> </table>	1. On Board PLC	POR	2. On Board HMI Interface	3. Classroom Teaching Software	4. On Board Application Module to study Temperature	5. On Board Traffic Light Control Module	6. On Board Application Module to study Conveyor Belt	7. On Board AC Servo Drive Training System	8. On Board AC Induction Motor Drive Training System	9. On Board Direction control operation of motor	10. On Board Manual Control Panel: Switches (Start/Stop), Potentiometer , DC Voltage Display.	11. Programming Software : ISP Soft ;Communication : USB Port	12. On Board Direction control operation of motor	13. On Board AC Drive (VFD)	14. On Board Manual Control Panel : Push buttons (start/stop/Jog) and speed potentiometer.	15. On Board Programmable motor parameters Overload & fault protection
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MT-E-EV LAB	EV BENCH TOP SYSTEM (EV PMSM MOTOR POWERTRAIN TRAINING LAB) The proposed package provides hands-on exposure to EV powertrain technology, electric motors and drives, battery characteristics, battery management systems, Power electronics and Drive Workbench EV <table border="1"> <tr><td>Traction Motor (Vehicle Motor)</td><td rowspan="3">POR</td></tr> <tr><td>Regenerative Motor Load (Regenerative Braking Load)</td></tr> <tr><td>Traction Battery & Battery Management System</td></tr> </table>	Traction Motor (Vehicle Motor)	POR	Regenerative Motor Load (Regenerative Braking Load)	Traction Battery & Battery Management System												
Traction Motor (Vehicle Motor)	POR																
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Traction Battery & Battery Management System																	

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	Regenerative Battery & Battery Management System Controllers Communication & Debuggin Instruments & Human-Machine Interface (HMI) Low Voltage System Vehicle Control Unit (VCU) Programming Strategy POWER ELECTRONIC AND DRIVE WORKBENCH for Electric Vehicle Laboratory	
MT-E-957EV	POWER ELECTRONIC AND DRIVE WORKBENCH (for EV LAB) SCOPE OF LEARNING: ● Single Phase SCR Rectifier and Bridge Converter ● Three Phase SCR Rectifier and Bridge Converter ● Single Phase Diode Rectifier and Bridge Converter ● Three Phase Diode Rectifier and Bridge Converter ● Step Up and Step Down Chopper ● Single Phase and Three Phase Antiparallel ● Inveter Single Phase Half Bridge and Full Bridge ● DC to DC Generation ● BLDC Motor Drive Operation ● PMSM Motor Drive Operation	
	1. MG Set with Operating & Control Unit 2. DC Motor & DC Generator with Operating & Control Unit 3. BLDC Motor with Operating & Control Unit 4. PMDC Motor with Operating & Control Unit 5. On Board Power SUPplies Operating & Control Unit 6. WOrkbench with Operating & Control Unit	POR
MT-E-COM LAB	COMPUTER NETWORKING & IoT TRAINING WORKBENCHE (Hands-on training platform for Computer Networking, LAN, Protocols, IoT, featuring server/client workstations, network topology and protocol experiments, packet analysis, troubleshooting, sensor/IoT communication, cloud connectivity, remote monitoring and automation)	
	1. Server Workstation with LAN training board 2. Client A Workstation interface with LAN training board 3. Client B Workstation interface with LAN training board 4. Client C Workstation interface with LAN training board 5. LAN Software 6. On Board IoT Gateway interface with Cloud based IoT Software 7. On Board WiFi Sensor Node interface with Cloud based IoT Software 8. On Board Bluetooth Sensor Node interface with Cloud based IoT Software 9. On Board GSM Sensor Node interface with Cloud based IoT Software 10. On Board RS485 Sensor Node interface with Cloud based IoT Software 11. On Board Smart Actuator Node interface with Cloud based IoT Software 12. On Board Sensors for IOT Applications interface with Cloud based IoT Software 13. Workbench	POR



MT-E-AI-MLW	AI, MACHINE LEARNING & DEEP LEARNING WORKSTATION (Purpose: A high-performance educational workstation designed for hands-on training and experimentation in Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision and Data Science, supporting model development, training, testing, visualization and AI application development.)	
	Workstation Server Machine with software and libraries with GPU Memory	POR
	Edge Computing Embedded Hardware	
	Camera Setup	
	Autonomous ROS AI Robotic Car	
	AI Vision Robotic Arm with ROS	
	AI Enhanced Smart IoT Application Setup	
	Training on Deep Learning & AIoT Lab to Faculties and RA	
	Experiments Workbook	

STANDARD LABORATORY TRAINING KITS, EQUIPMENT & TRAINING PANELS

ELECTRONICS LAB TRAINERS

MT-E048	Analog and Digital Lab Trainer	POR
MT-E048A	Analog and Digital Lab Trainer with Plug in Modules	POR
MT-E048B	Analog and Digital Trainer	POR
MT-E048C	Power Project Board Trainer	POR
MT-E048D	Advanced Analog Digital Electronics Development Platform	POR
MT-E049	Analog Component Trainer With Digital Meters and Function Generator	POR
MT-E049A	Analog Component Trainer With Digital Meters	POR
MT-E049B	Analog Component Trainer	POR
MT-E057	Linear IC Trainer with Function Generator	POR
MT-E057A	Linear IC Trainer	POR
MT-E057B	Linear IC Trainer (Basic)	POR
MT-E058	Digital IC Logic Bread Board Trainer	POR
MT-E058A	Digital Bread Board Trainer	POR
MT-E058B	Digital IC Logic Trainer	POR
MT-E058C	Digital IC Tester Trainer	POR
MT-E058D	Digital IC Trainer (DIT)	POR
MT-E058E	Digital IC Trainer (Graphical LCD)	POR
MT-E070	Discrete Component Trainer With Digital Meters and Function Generator	POR
MT-E070A	Discrete Component Trainer With Digital Meters	POR
MT-E070B	Discrete Component Trainer	POR
MT-E083	Analog Lab Trainer	POR
MT-E083A	Analog Lab Trainer with Plug in Modules	POR
MT-E083B	Advanced Analog Electronics Development Platform	POR
MT-E107	Combinational Logic Trainer	POR

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MT-E127A	Op-Amp Trainer (Basic)	POR
MT-E127B	Op-Amp Trainer (With Digital Meter and Function Generator)	POR
MT-E127C	Op-Amp Trainer (With Digital Meter)	POR
MT-E127D	Op-Amp Trainer (OPT)	POR
MT-E127E	Op-Amp Trainer (Advanced)	POR
MT-E129	Basic Electronics Trainer	POR
MT-E129A	Basic Electronics Trainer with Plug in Modules	POR
MT-E139	Digital Lab Trainer	POR
MT-E139A	Digital Lab Trainer with Plug in Modules	POR
MT-E201	Opto Electronics Characteristics Trainer (Digital)	POR
MT-E201A	Opto Electronics Characteristics Trainer (Analog)	POR
MT-E201B	Opto Electronics Characterization Trainer	POR
MT-E336	Semiconductor Characteristics Trainer	POR
MT-E359	Electricity Trainer	POR
MT-E360	Electricity Lab Trainer	POR
MT-E392	Digital Electronics Trainer	POR
MT-E393	Power Electronics Trainer	POR
MT-E393A	Power Electronics Trainer (V2)	POR
MT-E393B	Power Electronics Trainer (V2) with Plug in Modules	POR
MT-E393C	Power Electronics Trainer (ITI)	POR
MT-E393D	Power Electronics Trainer (Onboard 6 Applications)	POR
MT-E393E	Power Electronics Trainer (Onboard 6 Applications- New Syllabus)	POR
MT-E995	SCR Application Trainer	POR
MT-E1017	Transistor Application Trainer	POR
MT-E938	Electronic Bread Board Training Kit (Plug in Type)	POR
MT-E5001	Discrete Component Trainer - Set of 5	POR
MT-E5002	Transistor Application Trainer - Set of 5	POR
MT-E5003	Network and Bridges Trainer - Set of 5	POR
MT-E5004	A to D and D to A Converter Trainer - Set of 5	POR
MT-E5005	Analog and Digital Trainer - Set of 5	POR
MT-E5006	Linear IC Trainer - Set of 5	POR
MT-E5007	Digital IC Trainer - Set of 5	POR
MT-E5008	Power Electronics Trainer - Set of 5	POR
MT-E5009	Op-Amp Trainer - Set of 5	POR

DIGITAL ELECTRONICS LAB

MT-E007	Logic Gate Trainer Using TTL IC	POR
MT-E007A	Logic Gate Trainer Using CMOS IC	POR
MT-E007B	Logic Gate Trainer Using Discrete Components	POR
MT-E007C	Logic Gate Trainer Using DTL	POR
MT-E007D	Logic Gate Trainer Using RTL	POR

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MT-E007E	Logic Gate Trainer Using TTL	POR
MT-E007F	Logic Gate Trainer Using CMOS	POR
MT-E008	4 Bit Binary Adder and Subtractor Trainer	POR
MT-E026	4 Bit Shift Register Trainer	POR
MT-E035	Multiplexer and Demultiplexer Trainer (16:1, 1:16, 4:1 and 1:4)	POR
MT-E035A	Multiplexer and Demultiplexer Trainer (8:1, 1:8, 4:1 and 1:4)	POR
MT-E041	R-S, D, T, J-K and Master Slave J-K Flip Flop Trainer	POR
MT-E041B	R-S, D, T, J-K and Master Slave J-K Flip Flop Trainer (Using NAND Gate)	POR
MT-E041A	Master Slave J-K Flip Flop Trainer	POR
MT-E042	Synchronous and Asynchronous Counter Trainer	POR
MT-E072	NAND and NOR as Universal Gate Trainer	POR
MT-E080	Analog to Digital Converter Trainer	POR
MT-E080A	Analog to Digital Converter Trainer Using 0809 IC	POR
MT-E080B	Analog to Digital Converter Trainer Using Flash Type Parallel Comparator	POR
MT-E080C	Analog to Digital Converter Trainer Using Counter Type	POR
MT-E081	Digital to Analog Converter Trainer	POR
MT-E087	Encoder and Decoder Trainer	POR
MT-E089	De-Morgan's Trainer	POR
MT-E104	4 Bit Comparator Trainer	POR
MT-E104A	4,8,16 Bit Comparator Trainer	POR
MT-E112	Study of Code Converter (Grey , Binary and Excess-3)	POR
MT-E112A	Decimal to Octal and Hexadecimal Converter Trainer	POR
MT-E112B	Binary to Octal Converter Trainer	POR
MT-E124	Half Adder Trainer Using TTL Gates	POR
MT-E130	Full Adder Trainer Using TTL Gates	POR
MT-E130A	Half and Full Adder Trainer Using TTL Gates	POR
MT-E132	Parity Generator and Checker Trainer	POR
MT-E172	Study of Unidirectional Buffer Using 74244 IC	POR
MT-E173	Study of Bidirectional Buffer Using 74245 IC	POR
MT-E178	Study of Arithmetic Logic Unit	POR
MT-E250	Digital to Analog Converter Trainer Using 4Bit R-2R Network	POR
MT-E250A	Digital to Analog Converter Trainer Using 8Bit R-2R Network	POR
MT-E282	Mod-8 Counter Using J-K Flip Flop	POR
MT-E282A	Mod-16 Counter Using J-K Flip Flop	POR
MT-E353	Johnson's Ring Counter Using D Flip Flop	POR
MT-E354	Study of BCD Decade Counter Using 74190 IC	POR
MT-E379	Full Adder Using Multiplexer IC	POR
MT-E382	Boolean Algebra Trainer	POR
MT-E469	Digital To Analog Converter Trainer (Monolithic, R-2R and Weighted R Method)	POR
MT-E470	Analog to Digital Converter Trainer (Monolithic, Flash Type/ Comparator Type and Counter Type Method)	POR
MT-E471	Study of Digital to Analog and Analog to Digital Converter Trainer (Combined)	POR
MT-E625	4 Bit Counter Using J-K/ D Flip Flop Trainer (Ripple Counter)	POR
MT-E625A	Study of Counter and Shift Register Using Flip Flop Trainer	POR

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MT-E656	4 Bit Shift Register Using J-K/ D Flip Flop Trainer	POR
MT-E677	TTL and CMOS Characteristics Trainer	POR
MT-E939	Random Access Memory (RAM) Trainer	POR
MT-E952	Seven Segment DPM Trainer	POR
MT-E954	Event Counter Trainer	POR

ANALOG ELECTRONICS LAB

MT-E001B	PN Junction Diode Characteristics Trainer (2 Analog EDM-80 Meters)	POR
MT-E001C	PN Junction Diode Characteristics Trainer (2 Digital Meters)	POR
MT-E001D	PN Junction Diode Characteristics Trainer (4 Analog MR-65 Meters)	POR
MT-E001E	PN Junction Diode Characteristics Trainer (4 Digital Meters)	POR
MT-E002A	Transistor Characteristics Trainer (CE Mode Analog Meters)	POR
MT-E002B	Transistor Characteristics Trainer (CE Mode Digital Meters)	POR
MT-E002E	Transistor Characteristics Trainer (CE and CB Mode Analog Meters)	POR
MT-E002F	Transistor Characteristics Trainer (CE and CB Mode Digital Meters)	POR
MT-E002G	Transistor Characteristics Trainer (CE, CB and CC Mode Analog Meters)	POR
MT-E002H	Transistor Characteristics Trainer (CE, CB and CC Mode Digital Meters)	POR
MT-E003	PN Junction and Zener Diode Characteristics Trainer (Digital Meters)	POR
MT-E003A	PN Junction and Zener Diode Characteristics Trainer (Analog Meters)	POR
MT-E004	FET Characteristics Trainer (Digital Meters)	POR
MT-E004A	FET Characteristics Trainer (Analog Meters)	POR
MT-E005B	Zener Diode Characteristics Trainer (2 Analog EDM-80 Meters)	POR
MT-E005C	Zener Diode Characteristics Trainer (2 Digital Meters)	POR
MT-E005D	Zener Diode Characteristics Trainer (4 Analog MR-65 Meters)	POR
MT-E005E	Zener Diode Characteristics Trainer (4 Digital Meters)	POR
MT-E013	SCR Characteristics Trainer (Digital Meters)	POR
MT-E013A	SCR Characteristics Trainer (Analog Meters)	POR
MT-E013B	SCR Characteristics Trainer (Digital Meters- High Voltage 300V DC)	POR
MT-E014	Triac Characteristics Trainer (Digital Meters)	POR
MT-E014A	Triac Characteristics Trainer (Analog Meters)	POR
MT-E014B	Triac Characteristics Trainer (Digital Meters- High Voltage 300V DC)	POR
MT-E015	UJT Characteristics Trainer (Digital Meters)	POR
MT-E015A	UJT Characteristics Trainer (Analog Meters)	POR
MT-E015B	UJT Characteristics Trainer (Digital Meters- High Voltage 300V DC)	POR
MT-E020	Diac Characteristics Trainer (Digital Meters)	POR
MT-E020A	Diac Characteristics Trainer (Analog Meters)	POR
MT-E022	Galvanometer to Voltmeter Conversion Trainer	POR
MT-E023	Galvanometer to Ammeter Conversion Trainer	POR
MT-E025	Three Terminal Voltage Regulator Trainer (Fixed and Adjustable)	POR
MT-E025A	Voltage Regulator Trainer Using 2N3055	POR
MT-E025B	Voltage Regulator Trainer Using LM723	POR

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MT-E025C	Voltage Regulator Trainer Using Series Transistor and Shunt Zener	POR
MT-E025D	Fixed Voltage Regulator Trainer	POR
MT-E025E	Adjustable Voltage Regulator Trainer	POR
MT-E028	Clipping and Clamping Trainer Using PN Diode	POR
MT-E028A	Clipping and Clamping Trainer Using Op-Amp	POR
MT-E031	Half Wave, Full Wave and Bridge Rectifier Trainer (Digital)	POR
MT-E031A	Half Wave, Full Wave and Bridge Rectifier Trainer (Analog)	POR
MT-E051	Photo Diode Characteristics Trainer (Analog)	POR
MT-E051A	Photo Diode Characteristics Trainer (Digital)	POR
MT-E052	Biasing Techniques of Transistor Trainer	POR
MT-E052A	Biasing Techniques of MOSFET Trainer	POR
MT-E052B	Biasing Techniques of FET Trainer	POR
MT-E054	Switching Action of BJT Trainer	POR
MT-E055A	Opto Coupler Characteristics Trainer (Analog Meters)	POR
MT-E055	Opto Coupler Characteristics Trainer (Digital Meters)	POR
MT-E060	RMS, Peak and Average Value of an AC Circuit Trainer	POR
MT-E060A	RMS, Peak and Average Value of an AC Circuit Trainer (With Sine Wave Oscillator)	POR
MT-E063A	MOSFET Characteristics Trainer (Analog Meters)	POR
MT-E063	MOSFET Characteristics Trainer (Digital Meters)	POR
MT-E064A	IGBT Characteristics Trainer (Analog Meters)	POR
MT-E064	IGBT Characteristics Trainer (Digital Meters)	POR
MT-E067	Tunnel Diode Characteristics Trainer	POR
MT-E084	Varactor Diode Characteristics (Digital)	POR
MT-E189	Diode Valve Characteristics Trainer (Digital)	POR
MT-E189A	Diode Valve Characteristics Trainer (Analog)/ Child's Langmuir's Law	POR
MT-E189B	Work Function of Vacuum Diode Trainer	POR
MT-E094	Triode Valve Characteristics Trainer (Digital)	POR
MT-E094A	Triode Valve Characteristics Trainer (Analog)	POR
MT-E098	LDR Characteristics Trainer (Digital)	POR
MT-E098A	LDR Characteristics Trainer (Analog)	POR
MT-E142	Zener As Voltage Regulator and Characteristics Trainer (Digital)	POR
MT-E142A	Zener As Voltage Regulator and Characteristics Trainer (Analog)	POR
MT-E190	Pentode Valve Characteristics Trainer (Digital)	POR
MT-E190A	Digital Valve Characteristics Trainer (Diode, Triode, Tetrode, Pentode)	POR
MT-E190B	Tetrode Valve Characteristics Trainer (Digital)	POR
MT-E194	Led Characteristics Trainer (Digital)	POR
MT-E194A	Led Characteristics Trainer (Analog)	POR
MT-E646	Laser Diode Characteristics Trainer (V-I)	POR
MT-E646A	Laser Diode Characteristics Trainer (V-I, P-I)	POR
MT-E646B	Led Characteristics Trainer (V-I, P-I)	POR
MT-E646C	PIN Diode Characteristics Trainer (V-I, P-I)	POR
MT-E646D	Led and Laser Diode Characteristics Trainer (V-I, P-I)	POR
MT-E203	Choke Characteristics Trainer (Analog)	POR
MT-E397	Ionization Potential of Mercury Trainer (Digital)	POR
MT-E193	Thyristor Characteristics Trainer (Analog)	POR

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MT-E193A	Thyristor Characteristics Trainer (Digital)	POR
MT-E197	Semiconductor and Thyristor Characteristics Trainer (Analog)	POR
MT-E197	Semiconductor and Thyristor Characteristics Trainer (Digital)	POR
E184	LCR Impedance Trainer	POR
E184A	LCR Impedance Trainer (With Function Generator)	POR
MT-E191	Photo Cell Characteristics Trainer (Digital)	POR
MT-E191A	Photo Vacuum Cell Characteristics Trainer (Digital)	POR
MT-E256	Study of Transformers	POR
MT-E268	Lissajous Figure Trainer (With 2 Function Generators)	POR
MT-E341	Transient Response in RL and RC Circuit (With Square Wave Generator 0-100KHz)	POR
MT-E341A	Transient Response in RLC Circuit (With Square Wave Generator 0-100KHz)	POR
MT-E341B	Transient Response in RL, RC AND RLC Circuit	POR
MT-E341C	Transient Response in RL, RC AND RLC Circuit (With Square Wave)	POR
MT-E369	Solar Cell Characteristics Trainer (Digital)	POR
MT-E369A	Solar Cell Characteristics Trainer (Analog)	POR
MT-E369B	Study of V-I & Power Curves of Solar Cells & Find Max. Power Point & Efficiency	POR
MT-E369C	V-I Char, Load Response, Areal Char.& Spectral Response of Photo Voltaic Cell	POR
MT-E369D	Solar Simulator Lab	POR
MT-E573	GTO Characteristics Trainer (Digital) Compatible	POR
MT-E573A	GTO Characteristics Trainer (Digital) Genuine	POR
MT-E106	Op-Amp As Differentiator and Integrator Trainer	POR
MT-E626	Op-Amp As Zero Crossing Detector and Comparator Trainer	POR
MT-E626	Op-Amp As Zero Crossing Detector and Peak Detector Trainer	POR
MT-E078	Op-Amp As Summing, Difference, Average And Scaling Amplifier	POR
MT-E078A	Op-Amp As Inverting, Non Inverting, Integrator, Differentiator, Summing, Difference, Average, Scaling And Differential	POR
MT-E101	Op-Amp As Log and Antilog Amplifier Trainer	POR
MT-E177	Op-Amp As Inverting and Non Inverting Amplifier Trainer	POR
MT-E426A	Op-Amps As Sine, Square and Triangle Trainer Kit	POR

PHYSICS LAB EXPERIMENT SETUPS

MT-E429	Sodium Light Source Complete Setup with Aluminum Housing)	POR
MT-E429A	Sodium Light Source Complete Setup (with Wooden Housing)	POR
MT-E504	He-Ne Laser	POR
MT-E156	Optical Rotation of Sugar Solution Using Half Shade Polarimeter	POR
MT-E156A	Optical Rotation of Sugar Solution Using Advanced Polarimeter	POR
MT-E228A	To Find the Wavelength of Michelson Interferometer by Sodium Light	POR
MT-E228B	To Find the Wavelength of Michelson Interferometer by He-Ne Laser	POR
MT-E228C	To Find the Wavelength of Michelson Interferometer by Diode Laser	POR
MT-E228D	Michelson Interferometer (On Optical Bread Board)	POR

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MT-E229A	To Find the Wavelength of Febry Perot Interferometer by Sodium Light	POR
MT-E229B	To Find the Wavelength of FebryPerot Interferometer by He-Ne Laser	POR
MT-E229C	To Find the Wavelength of Febry Perot Interferometer by Diode Laser	POR
MT-E230	To Find the Air Gap Between Parallel Plates using Febry Perot Etalon	POR
MT-E231	To Find the Wavelength of Sodium Light using Diffraction Grating	POR
MT-E231A	Study of D1, D2 Lines of Sodium Light using Spectrometer	POR
MT-E232	Resolving Power of Grating using Spectrometer with Mercury Lamp	POR
MT-E232A	To Find the Wavelength of Mercury Light using Diffraction Grating	POR
MT-E233	To Find the Refractive Index of Prism using Sodium Light with Spectrometer	POR
MT-E234	To Find the Dispersive Power of Prism using Mercury Light (Hartmann's Formula)	POR
MT-E236	To Find the Dispersive Power of Prism using Hydrogen Discharge Tube	POR
MT-E236A	To Find the Dispersive Power of Prism using Sodium Light	POR
MT-E236A	To Find the Dispersive Power and Resolving Power of Diffraction Grating	POR
MT-E235	Determination of Rydberg's Constant and Hydrogen Spectrum	POR
MT-E253	Resolving Power of Telescope Without Sodium Lamp	POR
MT-E253A	Resolving Power of Telescope with Sodium Lamp	POR
MT-E976	Refractive Index of Liquid by Total Internal Reflection by Wollaston's Air Film	POR
MT-E976A	Refractive Index of Liquid by Total Internal Reflection using Gaussian Eyepiece	POR
MT-E709	Ultrasonic Interferometer Experiment	POR
MT-E709C	To Determine The Wavelength And Velocity of Ultrasonic Waves In A Liquid	POR
MT-E157	To Compare the EMF of Two Primary Cells using DC Potentiometer	POR
MT-E158	Measurement of Thermo EMF of Thermocouple Across Two Junction	POR
MT-E417	Calibration of Voltmeter and Ammeter using DC Slide Wire Potentiometer	POR
MT-E417A	Calibration of Voltmeter and Ammeter using Crompton Potentiometer	POR
MT-E419	Calibration of Voltmeter using DC Slide Wire Potentiometer	POR
MT-E419A	Calibration of Voltmeter using Crompton Potentiometer	POR
MT-E420	Calibration of Ammeter using DC Slide Wire Potentiometer	POR
MT-E420A	Calibration of Ammeter using Crompton Potentiometer	POR
MT-E508	To Find the Low Resistance using DC Potentiometer	POR
MT-E676A	To Find the Internal Resistance of Primary Cells using DC Potentiometer	POR
MT-E676	To Find the Internal Resistance of Primary Cells using PO Box	POR
MT-E311	To Find the Resistance of Given Wire using Meter Bridge	POR
MT-E311A	Resistance in Series and Parallel using Meter Bridge	POR
MT-E363	High Resistance By Using Substitution Method Trainer	POR
MT-E394	Temperature Coefficient of Platinum Resistance Thermometer using	POR

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	Carey Foster	
MT-E404	To Find the Low Resistance using Carey Foster Bridge (Digital)	POR
MT-E404A	To Find the Low Resistance using Carey Foster Bridge	POR
MT-E631A	Coeff.of Thermal Conductivity of a Bad Conductor by Lee & Charlton's Disc Method.	POR
MT-E632A	To Determine the Coefficient of Thermal Conductivity of Cu by Searle's Apparatus.	POR
MT-E633A	Determination of Mechanical Equivalent of Heat by Callender and Barne's Method	POR
MT-E237	Determination of Mechanical Equivalent of Heat by Joule's Calorimeter Method	POR
MT-E255	Determination of Melting Point of a Substance by Cellender and Griffith Bridge	POR
MT-E259	Measurement of Specific Resistance of Electrolyte by Kohlrausch's Bridge	POR
MT-E262	Figure and Merit of Ballistic Galvanometer (Ballistic Constant)	POR
MT-E267	High Resistance by Leakage Method	POR
MT-E670	Charge Sensitivity of a Capacitor/ Absolute Value of Cap. By Ballistic Galvanometer	POR
MT-E675	Compare the Capacitance of Two Capacitor by Ballistic Galvanometer	POR
MT-E643	To Find the Coefficient of Self Inductance of Coil by Rayleigh's Method	POR
MT-E650	To Find the Coefficient of Mutual Inductance of Coil by Rayleigh's Method	POR
MT-E645	To Find the Coefficient of Self Inductance of Coil by Rayleigh's Bridge	POR
MT-E443	Efficiency of Electrical Kettle	POR
MT-E696	Heat Capacity of Solid Experiment	POR
MT-E696A	Heat Capacity of Graphite Experiment	POR
MT-E192	Hall Effect Experiment Setup	POR
MT-E413	Magnetic Susceptibility of Liquid by Quinck's Tube Method	POR
MT-E414	Magnetic Susceptibility of Solid by Gouy's Balance Method	POR
MT-E414A	Magnetic Susceptibility of Solid and Liquid	POR
MT-E968	Constant Current Power Supply for Hall Effect	POR
MT-E383	Digital Gauss Meter	POR
MT-E188	DC Power Supply for Electromagnet (Isolated)	POR
MT-E188	DC Power Supply for Electromagnet (Regulated)	POR
MT-E656	Electromagnet (7.5K Gauss)	POR
K.Roy0POR1	Digital Balance for Gouy's Balance Method (0POR1gm Accuracy)	POR
StandProbe	Stand for Holding Probes	POR
Table0POR1	Stand for Holding Digital Balance for Gouy's Balance	POR
Sample5	Samples for Gouy's Balance (Nickel, Iron, Brass, Copper, Aluminum)	POR
MT-E215	Verification of Malus Law	POR
MT-E593	Inverse Square Law Apparatus	POR
MT-E220A	To Determine the Conductivity of Liquid by Kohlrush Bridge	POR
MT-E221	GM Counter Setup	POR
MT-E222	Polarization of Light By Reflection using Brewster Angle (Rod Type)	POR

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	Bench)	
MT-E222A	Polarization of Light By Reflection using Quarter Wave Plate (Rod Type Bench)	POR
MT-E222B	Polarization of Light By Reflection using Half Wave Plate (Rod Type Bench)	POR
MT-E222C	Polarization of Light By Reflection using Air Glass Interface	POR
MT-E664	Photo Conductivity of Selenium Cell	POR
MT-E862	To Analyze Elliptically Polarized Light by Babinet's Compensator with Mercury Light	POR
MT-E890	Faraday's Effect Experiment Setup using He-Ne Laser	POR
MT-E890A	Faraday's Effect Experiment Setup using Diode Laser	POR
MT-E224	Planck's Constant using Solar Cell (Without Spot)	POR
MT-E237	Determination of Mechanical Equivalent of Heat by Joule's Calorimeter	POR
MT-E238	Dielectric Constant with Curie Temperature Experiment	POR
MT-E238A	Dielectric Constant Experiment using Resonance Method	POR
MT-E238E	FREQUENCY DEPENDENCE OF DIELECTRIC CONSTANT (1-50KHz)	POR
MT-E238F	Dielectric Constant Experiment using Charging and Discharging Method	POR
MT-E239	Dielectric Constant in Liquid using Resonance Method	POR
MT-E239A	Dielectric Constant in Solid and Liquid using Resonance Method	POR
MT-E834	Capacitance and Permittivity Kit	POR
MT-E246	G By Free Fall Experiment	POR
MT-E635	Digital Timer, Scaler and Counter With 2 Photo Gates	POR
MT-E635A	Digital Timer With 2 Photo Gates	POR
MT-E687	Digital Stopwatch	POR
MT-E254	Determination of E/K of Power Transistor	POR
MT-E076	Energy Band Gap of PN Junction Diode	POR
MT-E076B	Energy Band Gap of PN Junction Diode (Superior Model)	POR
MT-E076C	Study of PN Junction (Diffusion Potential and Capacitance of Diode)	POR
MT-E074	Energy Band Gap of Thermistor	POR
MT-E439	Energy Band Gap of Semiconductor by Four Probe Method	POR
MT-E439A	Energy Band Gap of Semiconductor by Four Probe Method (Digital Temp. Meter)	POR
MT-E965	Two Probe Experiment With Nanometer	POR
MT-E965A	Two Probe Experiment With Picometer	POR
MT-E701	Boltzmann's Constant Apparatus (V-I Method)	POR
MT-E701	Boltzmann's Constant Apparatus with Temperature (V-I, T-I Method)	POR
MT-E367	Planck's Constant by Led Apparatus	POR
MT-E367A	Planck's Constant by Led Apparatus with Temperature	POR
MT-E388	Planck's Constant by Photocell Apparatus	POR
MT-E388A	Photo Electric Effect Apparatus	POR
MT-E388	Planck's Constant by Photocell Apparatus (With White Light Source)	POR
MT-E388A	Photo Electric Effect Apparatus (With White Light Source)	POR
MT-E388E	Planck's Constant by Photocell Apparatus (Compact)	POR
MT-E388E	Planck's Constant by Photocell Apparatus (Compact) (With White Light Source)	POR
MT-E224	Planck's Constant by Solar Cell Apparatus	POR

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MT-E415	Planck's Constant using Black Body Radiation Apparatus (Solar Cell)	POR
MT-E415B	Planck's Constant using Black Body Radiation Apparatus (Photo Cell)	POR
MT-E337	BH Hysteresis Loop Tracer (Advanced)	POR
MT-E337A	BH Hysteresis Loop Tracer (On U-I Core)	POR
MT-E337B	BH Curve Apparatus	POR
MT-E865	PE Hysteresis Loop Tracer	POR
MT-E859	Coupling Coefficient of Piezo Electric Crystal	POR
MT-E440	E/M Thomson by Bar Magnet	POR
MT-E605	E/M by Magnetron Method	POR
MT-E513	E/M by Magnetic Focusing Method (Short Solenoid)	POR
MT-E603	E/M by Helical Method (Long Solenoid)	POR
MT-E597	E/M by Oil Drop Method	POR
MT-E597A	E/M by Oil Drop Method (with USB Camera)	POR
MT-E597B	E/M by Oil Drop Method (with 7" CCD Screen)	POR
MT-E639	E/M by Zeeman Effect Method (with 14" CCD Screen)	POR
MT-E592	To Determine the Wavelength of Diode Laser using Diffraction Grating	POR
MT-E592D	Measurement of Particle Size Using Lycopodium Powder	POR
MT-E594	To Determine the Wavelength of Diode Laser using Single Slit	POR
MT-E599	To Determine the Wavelength of Diode Laser using Double Slit	POR
MT-E592C	Measurement of Thickness of Thin Wire using Diode Laser	POR
MT-E771	Beam Divergence of Laser	POR
MT-E771A	Beam Divergence of Laser (Light Detecting Microscope)	POR
MT-E743	To Measure the Intensity of Diode Laser using Photo Sensor by Single & Double Slit	POR
MT-E592B	To Measure the Intensity of Diode Laser using Photo Sensor by Diffraction Grating	POR
MT-E592A	To Determine the Wavelength of He-Ne Laser using Diffraction Grating	POR
MT-E594A	To Determine the Wavelength of He-Ne Laser using Single Slit	POR
MT-E599A	To Determine the Wavelength of He-Ne Laser using Double Slit	POR
MT-E1040	Photo Detector with Photo Sensor	POR
MT-E602	To Determine the Wavelength of Sodium Light using Fresnel's Bi-Prism	POR
MT-E602C	To Determine the Wavelength of Diode Laser using Fresnel's Bi-Prism	POR
MT-E602D	To Determine the Wavelength of He-Ne Laser using Fresnel's Bi-Prism	POR
MT-E602A	Fresnel's Bi-Prism Experiment with Research Optical Bench	POR
MT-E622	To Determine the Wavelength of Sodium Light using Lloyd Mirror	POR
MT-E622A	Lloyd Mirror Experiment with Research Optical Bench	POR
MT-E621A	To Determine the Wavelength of Sodium Light by Newton's Ring Microscope	POR
MT-E621B	Cornu's Method Experiment Setup	POR
MT-E844	To Determine the Thickness of a Thin Paper by Air Wedge Method	POR
MT-E257	Stewart and Gee Apparatus	POR

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MT-E257A	Magnetic Field in Helmholtz Coil Experiment Setup (Stewart Gee Type)	POR
AL-257B	Field Along Axis of Current Carrying Coil Experiment Setup	POR
MT-E1045	Tangent Galvanometer Experiment Setup	POR
MT-E717	Magnetic Field Along the Axis Helmholtz Coil Experiment Setup (On Optical Bench)	POR
MT-E717A	Magnetic Field Along the Axis Helmholtz Coil Experiment Setup (Solenoid)	POR
MT-E396	Biot Savrat Law Experiment Setup	POR
MT-E396A	Biot Savrat Law Experiment Setup (Circular Loop)	POR
MT-E974	Field Lines and Equipotential Lines Experimental Kit	POR
MT-E634	Measurement of Field Strength B and Its Variation in a Solenoid (Db by Dx)	POR
MT-E1004	Thermal and Electrical Conductivity of Metal Rod	POR
MT-E1004A	Thermal Conductivity of Metal Rod	POR
MT-E1004B	Electrical Conductivity of Metal Rod	POR
MT-E756	Thermal Conductivity of Cu by Angstrom's Method	POR
MT-E933	Focal Length of Mirror Experiment Setup	POR
MT-E769	Determination of Focal Length of Convergence of Lenses by Nodal Slide Assembly	POR
MT-E1050	Searle's Goniometer Experiment Setup	POR
MT-E888	Speed of Sound using Kundt's Tube	POR
MT-E075	Charging Discharging of Capacitor in RC Circuit (Digital)	POR
MT-E075A	Charging Discharging of Capacitor in RC Circuit (Analog)	POR
MT-E090	RLC Resonance Trainer (1 Digital Meter)	POR
MT-E090A	RLC Resonance Trainer (1 Analog Meter)	POR
MT-E090B	RLC Resonance Trainer (1 Analog Meter with Sine Wave Generator 0-100KHz)	POR
MT-E090C	RLC Resonance Trainer (1 Digital Meter with Digital Sine Wave Generator 0-100KHz)	POR
MT-E092	Stefan's Constant Apparatus (Electrical Method Analog Meters)	POR
MT-E092B	Stefan's Constant Apparatus (Electrical Method Digital Meters)	POR
MT-E092C	Stefan's Constant Apparatus (Electrical Method Black Body Radiation)	POR
MT-E092D	Stefan's Constant Apparatus (Thermal Method Black Body Radiation)	POR
MT-E445	Random Decay In LR Circuit	POR
MT-E843	To Determine the Frequency of Electrically Driven Tuning Fork by Melde's Exp.	POR
MT-E847	The Modulus Of Rigidity of The Material Of A Given Wire Using Torsion Pendulum	POR
MT-E863	Newton's Law of Cooling Experiment	POR
MT-E1040	Photo Detector with Photo Sensor	POR
MT-E723	Young Modulus of a Wire by Optical Lever Method	POR
MT-E719	To Determine the Height of Object with The Help Of Sextant	POR
MT-E255	To Determine The Melting Point of a Substance by Callender-Griffiths Method	POR
MT-E842	To Study A Compound Pendulum (Or Bar Pendulum)	POR

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MT-E821	To Determine The Moment of Inertia of a Flywheel	POR
MT-E1026	To Determine The Surface Tension of Liquid (Water) By Jaeger's Method	POR
MT-E633A	To Determine The Mechanical Equivalent Of Heat By Callender & Barne's Method	POR
MT-E1074	To Determine The Time Period of a Simple Pendulum	POR
MT-E1075	Complete Setup for Helmholtz Resonator Experiment.	POR
MT-E493	Coupled Oscillator Experiment	POR
MT-E185	Voltage Doubler and Tripler Trainer Kit	POR
MT-E268A	Lissajous Pattern Generator (Basic)	POR
MT-E268A	Lissajous Pattern Generator (Advanced)	POR
		POR
MT-E322	Owen's Inductance Bridge Trainer (Speaker as Null Detector)	POR
MT-E323B	Wein's Bridge Trainer (Digital Null Detector)	POR
MT-E324	Wheatstone Bridge Trainer (Analog Galvanometer)	POR
MT-E324B	Wheatstone Bridge Trainer (Digital Null Detector)	POR
MT-E325	De-Sauty's Bridge Trainer (Speaker as Null Detector)	POR
MT-E326B	Kelvin's Bridge Trainer (Digital Null Detector)	POR
MT-E936	Industrial Kelvin's Bridge Trainer	POR
MT-E327	Anderson's Bridge Trainer (Digital as Null Detector)	POR
MT-E327A	Anderson's Bridge Trainer (Headphone as Null Detector)	POR
MT-E328	Maxwell's Bridge Trainer (Speaker as Null Detector)	POR
MT-E329	Hay's Bridge Trainer (Digital Null Detector)	POR
MT-E330	Schering's Bridge Trainer (Speaker as Null Detector)	POR

CONTROL LAB TRAINERS

MT-E384	Synchro Transmitter and Receiver Trainer	POR
MT-E448	Stepper Motor Control Trainer using 8085 Microprocessor Kit	POR
MT-E448A	Stepper Motor Control using 8051 Microcontroller	POR
MT-E448B	Stepper Motor Control Trainer (Using Digital IC)	POR
MT-E448C	Stepper Motor Interface Using 8085 Microprocessor Trainer	POR
MT-E517	Temperature Control System Trainer	POR
MT-E517A	Temperature Control System Trainer using Thermistor	POR
MT-E517B	Temperature Control System Trainer using RTD	POR
MT-E517C	Temperature Control System Trainer using Thermocouple	POR
MT-E532	AC Servo Motor Control Trainer	POR
MT-E533	Speed and Torque Characteristics of DC Motor Control Trainer	POR
MT-E536	DC Position Servo Control System Trainer	POR
MT-E537	AC Position Servo Control System Trainer	POR
MT-E543	Potentiometer as Error Detector Trainer	POR
MT-E548	PID Control Trainer	POR
MT-E549	Temperature PID Control Trainer	POR

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MT-E560	DC Motor Speed Control System (Open & Closed Loop)	POR
MT-E027A	Verification of Ohm's Law (Analog) Superior	POR
MT-E027B	Verification of Ohm's Law (Analog)	POR
MT-E027C	Verification of Ohm's Law (Digital)	POR
MT-E024	Verification of Kirchhoff's Law of Voltage and Current (Digital)	POR
MT-E024A	Verification of Kirchhoff's Law of Voltage and Current (Analog)	POR
MT-E050B	Verification of Resistance in Series and Parallel	POR
MT-E053B	Verification of Resistance in Series	POR
MT-E056B	Verification of Resistance in Parallel	POR
MT-E032	Verification of Thevenin's Theorem (Digital)	POR
MT-E032A	Verification of Thevenin's Theorem (Analog)	POR
MT-E033	Verification of Superposition Theorem (Digital)	POR
MT-E033A	Verification of Superposition Theorem (Analog)	POR
MT-E034	Verification of Maximum Power Transfer Theorem (Digital)	POR
MT-E034A	Verification of Maximum Power Transfer Theorem (Analog)	POR
MT-E073	Verification of Norton's Theorem (Digital)	POR
MT-E073A	Verification of Norton's Theorem (Analog)	POR
MT-E126	DC Network Theorem (Digital)	POR
MT-E126A	DC Network Theorem (Analog)	POR
MT-E181	Verification of Reciprocity Theorem (Analog)	POR
MT-E217	Verification of Tellegan's Theorem (Analog)	POR
MT-E399	Verification of Millman's Theorem (Analog)	POR
MT-E409	Verification of Thevenin's and Norton's Theorem (Analog)	POR
MT-E409A	Verification of Superposition and Maximum Power Transfer Theorem (Analog)	POR
MT-E450	Verification of Inductor in Series and Parallel	POR
MT-E451	Verification of Capacitor in Series and Parallel	POR
MT-E999	Network and Bridges Trainer Kit	POR
MT-E145	Cascaded Two Port Network Trainer	POR
MT-E145A	Two Port Network Trainer	POR
MT-E265	T and Pie Attenuator Trainer	POR
MT-E338	ABCD Parameter of Two Port Network Trainer	POR
MT-E338A	ABCD, H, Z and Y Parameter of Two Port Network Trainer	POR
MT-E338B	H Parameter of Two Port Network Trainer	POR
MT-E339	T and Pie Network Trainer	POR
MT-E340	Two Port Ladder Network Trainer	POR
MT-E266	Active Low Pass, High Pass, Band Pass And Band Reject Filter Trainer	POR
MT-E266A	Active Low Pass, High Pass Filter Trainer	POR
MT-E266B	Active Filter Trainer (2nd Order)	POR
MT-E809	Verification of Node Analysis Network	POR
MT-E810	Verification of Mesh Analysis Network	POR

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INSTRUMENTATION AND TRANSDUCER LAB

MT-E138	Angular Displacement using Capacitive Transducer Trainer	POR
MT-E141	Linear, Angular and LDR Measurement Transducer Trainer	POR
MT-E141A	Potentiometer Distance Measurement Transducer Trainer (Linear, Angular)	POR
MT-E141B	Servo Transducer Trainer (Angular Distance)	POR
MT-E303	LDR as Distance Measurement Trainer	POR
MT-E303A	Photo Sensor as Distance Measurement Transducer Trainer	POR
MT-E304	Photo Diode as Distance Measurement Transducer Trainer	POR
MT-E304A	Photo Transistor as Distance Measurement Transducer Trainer	POR
MT-E304B	Photo Voltaic as Distance Measurement Transducer Trainer	POR
MT-E628	Optical Transducer Trainer	POR
MT-E149A	Strain Gauge Transducer Trainer	POR
MT-E149B	Load Cell as Strain Gauge Transducer Trainer	POR
MT-E149C	Strain Gauge as Cantilever Transducer Trainer	POR
MT-E140	Thermistor Temperature Transducer Trainer	POR
MT-E150	RTD Temperature Transducer Trainer	POR
MT-E150A	RTD Temperature Transducer Trainer (Off Balance Method)	POR
MT-E151	Temperature Transducer Trainer	POR
MT-E151A	Temperature Transducer Trainer (Advanced Specs)	POR
MT-E153	Thermocouple Temperature Transducer Trainer	POR
MT-E554	LM335 Temperature Transducer Trainer	POR
MT-E554A	LM35 Temperature Transducer Trainer	POR
MT-E818	AD590 Temperature Transducer Trainer	POR
MT-E210	Piezo Electric Transducer Trainer	POR
MT-E276	Instrumentation Transducer Trainer	POR
MT-E371	Ultrasonic Distance Measurement Trainer	POR
MT-E386	Linear Variable Differential Transducer Trainer (LVDT)	POR
MT-E154	LVDT as Pressure Measurement Trainer	POR
MT-E408	Speed Measurement by Magnetic Pickup Transducer Trainer (Proximity Sensor)	POR
MT-E557A	Speed Measurement by Optical Pickup Transducer Trainer (Photo Electric Sensor)	POR
MT-E557B	Speed Measurement by Hall Transducer Trainer	POR
MT-E557C	Speed Measurement by Magnetic and Optical Pickup Transducer Trainer	POR
MT-E418	Instrumentation and Transducer Trainer (Sensor Trainer with 8 Sensors)	POR
MT-E418A	Instrumentation and Transducer Trainer (Sensor Trainer with 15 Sensors)	POR
MT-E418B	Instrumentation and Transducer Trainer (Sensor Trainer with 17 Sensors)	POR
MT-E418C	Instrumentation and Transducer Trainer (Sensor Trainer with 9	POR

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	Sensors) AI-Profile	
MT-E418D	Instrumentation and Transducer Trainer (Sensor Trainer with 6 Sensors) AI-Profile	POR
MT-E418F	IOT Based Sensor Lab Trainer	POR
MT-E454A	Water Level and Flow Measurement using Capacitive Pickup Transducer Trainer	POR
MT-E454B	Water Level Measurement using Capacitive Pickup Transducer Trainer (Basic)	POR
MT-E565	Strain Gauge as Pressure Transducer Trainer	POR
MT-E565A	Pressure Measurement using Pressure Cell Transducer Trainer	POR
MT-E565B	Pressure Measurement using Differential Pressure Transducer Trainer	POR
MT-E1041	Vibration Measurement Transducer Trainer	POR
MT-E1044	Eddy Current Transducer Trainer	POR

POWER SUPPLIES

MT-E010A	DC Regulated Power Supply 0-30V/1A (Digital)	POR
MT-E010B	DC Regulated Power Supply 0-30V/2A (Digital)	POR
MT-E010C	DC Regulated Power Supply 0-30V/3A (Digital)	POR
MT-E010D	DC Regulated Power Supply 0-30V/5A (Digital)	POR
MT-E010E	DC Regulated Power Supply 0-30V/10A (Digital)	POR
MT-E010F	DC Regulated Power Supply 0-30V/20A (Digital)	POR
MT-E010G	DC Regulated Power Supply 0-30V/30A (Digital)	POR
MT-E100A	DC Dual Regulated Power Supply 30-0-30V/1A (Digital)	POR
MT-E100B	DC Dual Regulated Power Supply 30-0-30V/2A (Digital)	POR
MT-E100C	DC Dual Regulated Power Supply 30-0-30V/3A (Digital)	POR
MT-E100D	DC Dual Regulated Power Supply 30-0-30V/4A (Digital)	POR
MT-E100E	DC Dual Regulated Power Supply 30-0-30V/5A (Digital)	POR
MT-E100F	DC Dual Regulated Power Supply 30-0-30V/10A (Digital)	POR
MT-E100G	DC Dual Regulated Power Supply 30-0-30V/50A (Digital)	POR
MT-E188A	DC Regulated Power Supply 0-65V/2A (Digital)	POR
MT-E188A.1	DC Regulated Power Supply 0-65V/3A (Digital)	POR
MT-E188B	DC Regulated Power Supply 0-65V/5A (Digital)	POR
MT-E188C	DC Regulated Power Supply 0-65V/10A (Digital)	POR
MT-E586F	Battery Charger 48V,30A	POR
MT-E152	Extra High Tension Power Supply (EHT 0-10KV)	POR
MT-E152A	Extra High Tension Power Supply (EHT 0-5KV)	POR
MT-E248	Discharge Power Supply	POR

CRO- DSO- FUNCTION GENERATOR

MT-E CRO series	Cathode Ray Oscilloscope 20-30-60 MHz	POR
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MT-E DSO series	Digital Storage Oscilloscope 100-200-500MHz	POR
MT-E DMM series	Digital Multimeter 3.5-4.5 Digit	POR
MT-E091	Audio Oscillator 1KHz (Fixed Frequency)	POR
MT-E170	Audio Frequency Function Generator 0-100Khz	POR
MT-E170.1	Audio Frequency Function Generator 0-200Khz	POR
MT-E170A	Audio Frequency Function Generator 0-1Mhz (Digital)	POR
MT-E170B	Audio Frequency Function Generator 0-2Mhz (Digital)	POR
MT-E170C	Audio Frequency Function Generator 0-3Mhz (Digital)	POR
MT-E170D	Audio Frequency Function Generator 0-5Mhz (Digital)	POR
MT-E170E	Audio Frequency Function Generator 0-10Mhz (Digital)	POR
MT-E170F	Audio Frequency Function Generator 0-100Khz (Digital)	POR
MT-E170G	Audio Frequency Function Generator 0-200Khz (Digital)	POR
MT-E171	Pulse Generator 1MHz	POR
MT-E572	DDS Function Generator 10MHz	POR
MT-E572A	DDS Function Generator 25MHz	POR
MT-E572D	DDS Function Generator 15MHz	POR
		POR
MT-E808	RF Oscillator (Analog) For Ultrasonic Diffraction Experiment	POR
MT-E808A	RF Oscillator (Digital) For Ultrasonic Diffraction Experiment	POR
MT-E006	Hartley and Colpitt's Oscillator Trainer	POR
MT-E012	Study of Multivibrators Trainer (using 555 Timer)	POR
MT-E012A	Study of Multivibrators Trainer (using Transistor)	POR
MT-E012B	Study of Multivibrators Trainer (using 741 IC)	POR
MT-E016A	Wein's Bridge Trainer using Op-Amp	POR
MT-E016B	Wein's Bridge Trainer using Transistor	POR
MT-E017A	RC Phase Shift Oscillator Trainer using Op-Amp	POR
MT-E017B	RC Phase Shift Oscillator Trainer using Transistor	POR
MT-E018	Hartley Oscillator Trainer	POR
MT-E019	Colpitt's Oscillator Trainer	POR
MT-E021	UJT as Relaxation Oscillator Trainer	POR
MT-E045	Monostable Multivibrator Trainer (using 555 IC)	POR
MT-E045A	Monostable Multivibrator Trainer (using Transistor)	POR
MT-E045B	Monostable Multivibrator Trainer (using 741 IC)	POR
MT-E046	Astable Multivibrator Trainer (using 555 IC)	POR
MT-E046A	Astable Multivibrator Trainer (using Transistor)	POR
MT-E046B	Astable Multivibrator Trainer (using 741 IC)	POR
MT-E047	Bistable Multivibrator Trainer (using 555 IC)	POR
MT-E047A	Bistable Multivibrator Trainer (using Transistor)	POR
MT-E047B	Bistable Multivibrator Trainer (using 741 IC)	POR
MT-E146	Astable and Monostable Multivibrator Trainer (using 741 IC)	POR
MT-E381	Crystal Oscillator Trainer	POR
MT-E486	AF-RF Oscillator Trainer	POR
		POR
MT-E029	Transistor Amplifier Trainer (CB, CE and CC)	POR
MT-E029A	Transistor Amplifier Trainer (CB, CE and CC) With 0-100KHz Sine Wave Oscillator	POR
MT-E029B	Transistor Amplifier Trainer (CB, CE and CC) With Digital AC Millivoltmeter	POR

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MT-E029C	Transistor Amplifier Trainer (CB, CE and CC) With Sine Wave and AC Millivoltmeter	POR
MT-E036	RC Coupled Amplifier Trainer (Multi Stage)	POR
MT-E036A	RC Coupled Amplifier Trainer (Multi Stage) With 0-100KHz Sine Wave Oscillator	POR
MT-E036B	RC Coupled Amplifier Trainer (Multi Stage) With Digital AC Millivoltmeter	POR
MT-E036C	RC Coupled Amplifier Trainer (Multi Stage) With Sine Wave and AC Millivoltmeter	POR
MT-E038	Push Pull Amplifier Trainer	POR
MT-E038A	Push Pull Amplifier Trainer With 0-100KHz Sine Wave Oscillator	POR
MT-E039	FET As Common Source Amplifier Trainer	POR
MT-E039A	FET As Common Source Amplifier Trainer (With 0-100KHz Sine Wave Generator)	POR
MT-E039B	FET As Common Source Amplifier Trainer (With AC Meters)	POR
MT-E039C	FET As Common Source Amplifier Trainer (With AC Meters and Sine Wave Gen.)	POR
MT-E102	Op-Amp As Differential Amplifier Trainer	POR
MT-E102A	Differential Amplifier Trainer	POR
MT-E102B	Push Pull Amplifier and Differential Amplifier Trainer	POR
MT-E102C	Power Amplifier and Differential Amplifier Trainer (Transistor Based)	POR
MT-E102D	Power Amplifier and Differential Amplifier Trainer (FET Based)	POR
MT-E117	CC Mode Transistor Amplifier Trainer (Common Collector/ Emitter Follower)	POR
MT-E117A	CC Transistor Amplifier Trainer With 0-100KHz Sine Wave Oscillator	POR
MT-E118	CB Mode Transistor Amplifier Trainer	POR
MT-E118A	CB Transistor Amplifier Trainer With 0-100KHz Sine Wave Oscillator	POR
MT-E118B	CB Mode Transistor Amplifier Trainer With Digital AC Millivoltmeter	POR
MT-E118C	CB Transistor Amplifier Trainer With Sine Wave & AC Millivoltmeter	POR
MT-E119	CE Mode RC Coupled Amplifier Trainer (Single Stage)	POR
MT-E119A	CE RC Coupled Amplifier Trainer (Single Stage) With 0-100KHz Sine Wave Oscillator	POR
MT-E119B	CE Mode RC Coupled Amplifier Trainer (Single Stage) With Digital AC Millivoltmeter	POR
MT-E119C	CE RC Coupled Amplifier Trainer (Single Stage) With Sine Wave & AC Millivoltmeter	POR
MT-E123	Single Stage Class C Tuned Amplifier Trainer	POR
MT-E123A	Two Stage Class C Tuned Amplifier Trainer	POR
MT-E455	Power Amplifier Trainer	POR
MT-E468	Audio Power Amplifier Trainer	POR
MT-E333	Schmitt Trigger Trainer	POR

POWER ELECTRONICS AND DRIVE LAB

MT-E037	Single Phase AC Phase Control by Triac-Diac Trainer	POR
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MT-E037A	Single Phase Fan Speed Control by Triac-Diac Trainer	POR
MT-E037B	Single Phase Motor Speed Control by Triac Diac Trainer	POR
MT-E037C	Light Activated Solid State Relay using Triac- Diac Trainer	POR
MT-E971	Drive Circuit for SCR and Triac using DIAC	POR
MT-E971A	Drive Circuit for SCR and Triac using UJT	POR
MT-E971B	Drive Circuit for Triac using Transistor	POR
MT-E269	Circuit Breaker Trainer using SCR	POR
MT-E273	Battery Charging Technique using SCR	POR
MT-E274	Zero Voltage Switching using SCR	POR
MT-E061	SCR Single Phase Half Controlled Bridge Converter Trainer (Ramp Firing)	POR
MT-E061A	DC Shunt Motor Speed Control using Single Phase Half Controlled Bridge Converter	POR
MT-E061B	PMDC Motor Speed Control using Single Phase Half Controlled Bridge Converter	POR
MT-E061C	Universal Motor Speed Control using Single Phase Half Controlled Bridge Converter	POR
MT-E061D	DC Series Motor Speed Control using Single Phase Half Controlled Bridge Converter	POR
MT-E961	SCR Single Phase Half Controlled Bridge Converter Trainer (UJT Firing)	POR
MT-E062	SCR Single Phase Half-Full Controlled Bridge Converter Trainer (Ramp Firing)	POR
MT-E962	SCR Single Phase Half-Full Controlled Bridge Converter Trainer (UJT Firing)	POR
MT-E462	SCR Single Phase Half Controlled Rectifier Trainer (Ramp Firing)	POR
MT-E462A	SCR Single Phase Half Controlled Rectifier Trainer (RC Firing)	POR
MT-E961A	SCR Single Phase Half Controlled Rectifier Trainer (UJT Firing)	POR
MT-E463	SCR Single Phase Half-Full Controlled Rectifier Trainer (Ramp Firing)	POR
MT-E463A	SCR Single Phase Half-Full Controlled Rectifier Trainer (RC Firing)	POR
MT-E962A	SCR Single Phase Half-Full Controlled Rectifier Trainer (UJT Firing)	POR
MT-E199	SCR Three Phase Half Cont. Bridge Converter Trainer (Ramp Firing)	POR
MT-E200	SCR Three Phase Half-Full Controlled Bridge Converter Trainer (Ramp Firing)	POR
MT-E208	SCR Single and Three Phase Half-Full Controlled Bridge Converter Trainer	POR
MT-E765	Single and Three Phase Converter and AC Voltage Controller Trainer (Rack)	POR
MT-E306	Single Phase Half Wave Uncontrolled Rectifier Trainer	POR
MT-E307	Single Phase Full Wave Uncontrolled Rectifier Trainer	POR
MT-E310	Three Phase Half Wave Uncontrolled Rectifier Trainer	POR
MT-E313	Three Phase Full Wave Uncontrolled Rectifier Trainer	POR
MT-E685	SCR Single Phase Dual Converter Trainer	POR
MT-E686	SCR Three Phase Dual Converter Trainer	POR
MT-E066	UJT Firing Technique using SCR Trainer	POR
MT-E066A	UJT Relaxation Oscillator, Firing and Timer Delay Trainer	POR
MT-E956	UJT Static Emitter Characteristics	POR

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MT-E096	SCR Firing Technique Trainer (R, RC, UJT)	POR
MT-E096A	SCR Firing Technique Trainer (R, RC, UJT and IC 555)	POR
MT-E196	Cosine Firing Technique Trainer	POR
MT-E353	SCR Commutation Trainer	POR
MT-E088	Single Phase MOSFET Bridge Inverter using PWM Technique	POR
MT-E088A	Speed Control of Induction Motor using Single Phase Bridge Inverter Trainer	POR
MT-E272	Single Phase Series Inverter Trainer using SCR	POR
MT-E672	Single Phase Parallel Inverter Trainer using SCR	POR
MT-E672A	Single Phase Parallel Inverter Trainer using MOSFET	POR
MT-E475	Single Phase Half Bridge MOSFET Inverter Trainer using PWM Technique	POR
MT-E475A	Single Phase Half Bridge IGBT Inverter Trainer using PWM Technique	POR
MT-E475B	Single Phase Half Bridge Transistor Inverter Trainer using PWM Technique	POR
MT-E478	Three Phase Voltage Source IGBT Inverter Trainer	POR
MT-E946	Three Phase PWM IGBT Inverter Trainer	POR
MT-E946A	Speed Control of Induction Motor using 3Phase PWM Inverter Trainer	POR
MT-E767	Single and Three Phase Inverter Trainer (Rack)	POR
MT-E887	Single Phase SPWM Inverter Trainer using IGBT	POR
MT-E1031	Single Phase Half and Full Bridge Inverter Trainer	POR
MT-E400	Step Down Chopper Trainer (MOSFET Based)	POR
MT-E400A	Step Down Chopper Trainer (IGBT Based)	POR
MT-E401	Step Up Chopper Trainer (MOSFET Based)	POR
MT-E401A	Step Up Chopper Trainer (IGBT Based)	POR
MT-E600	Step Up and Step Down Chopper Trainer	POR
MT-E652	Jones Chopper Trainer	POR
MT-E770	Single Phase Four Quadrant Chopper Trainer (Rack)	POR
MT-E816	Single Phase 1, 2 and 4 Quadrant Chopper Trainer	POR
MT-E816A	DC Motor Control using 1, 2 and 4 Quadrant Chopper Trainer	POR
MT-E816B	DC Motor Control using 4 Quadrant Chopper Trainer	POR
MT-E606	DC to DC Converter Trainer (Buck, Boost and Buck-Boost)	POR
MT-E606A	DC Motor Control using DC to DC Converter Trainer (Buck, Boost and Buck-Boost)	POR
MT-E823	DC to DC Buck Boost Converter Trainer	POR
MT-E828	DC to DC Buck Converter Trainer	POR
MT-E829	DC to DC Boost Converter Trainer	POR
MT-E403	Single Phase Cycloconverter Trainer	POR
MT-E403A	Speed Control of Induction Motor using Single Phase Cycloconverter Trainer	POR
MT-E403B	Speed Control of Universal Motor using Single Phase Cycloconverter Trainer	POR
MT-E615	Three Phase Cycloconverter Trainer	POR
MT-E466	Single Phase AC Voltage Controller using Anti Parallel Thyristor Trainer	POR
MT-E466A	Universal Motor Controller Using Anti Parallel Thyristor Trainer	POR

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MT-E466B	FHP Induction Motor Controller Using Anti Parallel Thyristor Trainer	POR
MT-E482	Three Phase AC Voltage Controller using Anti Parallel Thyristor Trainer	POR
MT-E485	Single Phase AC Voltage Controller using Triac Trainer	POR
MT-E485A	FHP Induction Motor Controller Using using Triac Trainer	POR
MT-E479	Static and Dynamic Characteristics of IGBT and MOSFET	POR
MT-E479A	Static and Dynamic Characteristics of Transistor	POR
MT-E479B	Static and Dynamic Characteristics of IGBT, MOSFET and Transistor	POR
MT-E686	SCR Three Phase Dual Converter Trainer	POR
MT-E686A	Speed Control of PMDC Motor Using SCR Three Phase Dual Converter Trainer	POR
MT-E686B	Speed Control of DC Motor Using Three Phase Dual Converter Trainer	POR

CONSUMER ELECTRONICS LAB

MT-E086	SMPS Trainer	POR
MT-E086A	SMPS Trainer using MOSFET	POR
MT-E214	UPS Trainer	POR
MT-E155	Automatic Voltage Stabilizer 1KVA	POR
MT-E481	Constant Voltage (CVT) Trainer	POR
MT-E743	Digital Multimeter Trainer	POR
MT-E972	CRO Trainer	POR
MT-E263	Function Generator Trainer	POR

GREEN ENERGY/RENEWABLE ENERGY BASED TRAINERS

MT-E369A	Solar Cell Characteristics Trainer	POR
MT-E370	Solar Energy Trainer Junior	POR
MT-E370A	Solar Energy Trainer Senior	POR
MT-E411	Wind Energy Trainer Junior	POR
MT-E412	Solar and Wind Energy Trainer Junior	POR
MT-E575	Fuel Cell Trainer Junior	POR
MT-E694	Study of Solar Photo Voltaic Panel in Series and Parallel Combination	POR
MT-E496A	Solar Power Generation Trainer 24V Inv. 1000W	POR
MT-E496Aa	Solar Power Generation Trainer 12V Inv. 500W	POR
MT-E496A	Solar Cell Grid Tied Inverter System 300W	POR
MT-E496B	Solar Cell Grid Tied Inverter System 1000W	POR
MT-E497A	Wind Power Generation Trainer 300W	POR
MT-E497A	Wind Power Generation Trainer 700W	POR
MT-E1058	Dual Axis Solar Tracking System	POR

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MT-E498A	Solar Wind Hybrid Power Generation Trainer 300W+150W Manual	POR
MT-E498A	Solar Wind Hybrid Power Generation Trainer 500W+300W Manual	POR
MT-E498A	Solar and Wind Power Generation Trainer 750W+600W Automatic	POR
MT-E768	Solar, Wind Water Hybrid Power Generation And Training System	POR
MT-E922	Fuel Cell Power Generation Trainer	POR

PLC TRAINERS

MT-E763A	Traffic Light Simulator Using PLC	POR
MT-E490	PLC Trainer (Siemens Logo)	POR

ELECTRICAL LOADS

MT-E277	3Phase Resistive Load 3KW	POR
MT-E277A	3Phase Resistive Lamp Load 1.5KW	POR
MT-E277B	3Phase Resistive Load 3.5KW	POR
MT-E277S	3Phase Resistive Load 5KW	POR
MT-E427	Single Phase Resistive Load 2.5KW	POR
MT-E427A	Single Phase Resistive Load 1.5KW	POR
MT-E510	3Phase Capacitive Load 3KW	POR
MT-E511	Single Phase Capacitive Load 2.5KW	POR
MT-E515	3Phase Inductive Load 3KW	POR
MT-E515A	3Phase Inductive Load Variable 3.5KW	POR
MT-E516	Single Phase Inductive Load 2.5KW	POR
MT-E1067	3Phase RLC Load	POR
MT-E1067A	3Phase RLC Load-1	POR

STARTERS, VARIACS AND TRANSFORMERS

MT-E287A	DC Starters (2 Point)	POR
MT-E287B	DC Starters (3 Point)	POR
MT-E287C	DC Starters (4 Point)	POR
MT-E287E	3Phase DOL Starter	POR
MT-E287F	3 Phase Star Delta Starter (Manual)	POR
MT-E287F	3 Phase Star Delta Starter (Automatic)	POR
MT-E287I	Rotor Resistance Starter	POR
MT-E287J	3 Phase Star Delta Soft Starter	POR
MT-E287K	Automatic Forward Reverse Starter	POR
MT-E293A	Single Phase Transformer Unit (1KVA)	POR

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MT-E293B	Single Phase Transformer Unit (2KVA)	POR
MT-E293C	Single Phase Transformer Unit (3KVA)	POR
MT-E295	Three Phase Transformer Unit (1.5KVA Air Cooled)	POR
MT-E295A	Three Phase Transformer Unit (1.5KVA Oil Cooled)	POR
MT-E299	Single Phase Auto Transformer 10A	POR
MT-E302	Three Phase Auto Transformer 10A	POR

POWER ENGINEERING LAB

MT-E099	Single Phase and Three Phase Continuous Power Supply	POR
MT-E279A	Single Phase Capacitor Start Capacitor Run Induction Motor (Speed Control)	POR
MT-E279B	Single Phase Capacitor Start Capacitor Run Induction Motor (Load Test)	POR
MT-E279C	Single Phase Capacitor Start Capacitor Run Induction Motor (Speed Control)_Rack	POR
MT-E279D	Single Phase Capacitor Start Capacitor Run Induction Motor (Load Test)_Rack	POR
MT-E280A	Single Phase Capacitor Start Induction Motor (Speed Control)	POR
MT-E280B	Single Phase Capacitor Start Induction Motor (Load Test)	POR
MT-E280C	Single Phase Capacitor Start Induction Motor (Speed Control)_Rack	POR
MT-E280D	Single Phase Capacitor Start Induction Motor (Load Test)_Rack	POR
MT-E284	Power and Power Factor Measurement by Two Wattmeter Method	POR
MT-E284A	Power and Power Factor Measurement by Two Wattmeter Method (Rack)	POR
MT-E284B	Power Measurement by Two Wattmeter Method	POR
MT-E289	Transformer Lab Trainer (Single and Three Phase)	POR
MT-E289A	Transformer Lab Trainer (Single and Three Phase)_Rack	POR
MT-E291	3 Phase Power Distribution Transformer Trainer	POR
MT-E291A	3 Phase Power Distribution Transformer Trainer (Advanced)	POR
MT-E291A	3 Phase Power Distribution Transformer Trainer (Rack)	POR
MT-E294A	3 Phase AC Pole Changing (Dhalandar) Induction Motor (Speed Control)	POR
MT-E294B	3 Phase AC Pole Changing (Dhalandar) Induction Motor (Speed Control)	POR
MT-E294C	3 Phase AC Pole Changing (Dhalandar) Induction Motor (Speed Control)_Rack	POR
MT-E294D	3 Phase AC Pole Changing (Dhalandar) Induction Motor (Speed Control)_Rack	POR
MT-E294E	3 Phase AC Pole Changing (Dhalandar) Induction Motor	POR
MT-E296	Single Phase Transformer Trainer	POR
MT-E296A	Single Phase Transformer Trainer (On Aluminum Profile)	POR
MT-E297A	3 Phase AC Slip Ring Induction Motor (Speed Control)	POR
MT-E297B	3 Phase AC Slip Ring Induction Motor (Load Test)	POR
MT-E297C	3 Phase AC Slip Ring Induction Motor (Speed Control)_Rack	POR

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MT-E297D	3 Phase AC Slip Ring Induction Motor (Load Test)_Rack	POR
MT-E297E	3 Phase AC Slip Ring Induction Motor	POR
MT-E298A	Single Phase AC Induction Motor (Speed Control)	POR
MT-E298B	Single Phase AC Induction Motor (Load Test)	POR
MT-E298C	Single Phase AC Induction Motor (Speed Control)_Rack	POR
MT-E300A	Single Phase Universal Motor (Speed Control)	POR
MT-E300B	Single Phase Universal Motor (Load Test)	POR
MT-E300C	Single Phase Universal Motor (Speed Control)_Rack	POR
MT-E300D	Single Phase Universal Motor (Load Test)_Rack	POR
MT-E301A	Single Phase AC Split Pole Induction Motor (Speed Control)	POR
MT-E301B	Single Phase AC Split Pole Induction Motor (Load Test)	POR
MT-E301C	Single Phase AC Split Pole Induction Motor (Speed Control)_Rack	POR
MT-E301D	Single Phase AC Split Pole Induction Motor (Load Test)_Rack	POR
MT-E305A	Single Phase AC Repulsion Induction Motor (Speed Control)	POR
MT-E305B	Single Phase AC Repulsion Induction Motor (Load Test)	POR
MT-E305C	Single Phase AC Repulsion Induction Motor (Speed Control)_Rack	POR
MT-E308A	Open Circuit and Short Circuit (OC-SC) Test on Single Phase Transformer Trainer	POR
MT-E308B	Open Circuit and Short Circuit (OC-SC) Test on Single Phase Transformer Trainer (Rack)	POR
MT-E309	Parallel Operations Of Two Single Phase Transformer Trainer	POR
MT-E309A	Parallel Operations Of Two Single Phase Transformer Trainer (Rack)	POR
MT-E314	DC Shunt Motor Coupled With AC Synchronous Alternator (MG Set)	POR
MT-E314A	DC Shunt Motor Coupled With AC Synchronous Alternator Trainer	POR
MT-E314B	DC Shunt Motor Coupled With AC Synchronous Alternator (Rack)	POR
MT-E314D	DC Shunt Motor Coupled With AC Synchronous Alternator (DC Drive Model) (Rack)	POR
MT-E342B	Speed Control of 3 Phase Induction Motor by PWM Based Frequency Drive (Rack)	POR
MT-E343B	Speed Control of DC Shunt Motor by SCR Based DC Drive Method (Rack)	POR
MT-E343D	DC Shunt Motor by SCR Based DC Drive Method with Tachogenerator	POR
MT-E358	3 Phase Transformer Trainer	POR
MT-E358A	3 Phase Transformer Trainer (Rack)	POR
MT-E373	Swinburne's Test on Shunt Motor Trainer	POR
MT-E373A	Swinburne's Test on Shunt Motor Trainer (Rack)	POR
MT-E374	Single Phase Energy Meter Control Trainer	POR
MT-E374A	Single Phase Energy Meter Control Trainer(Rack)	POR
MT-E375B	DC Series Motor Coupled with DC Series Generator Control Trainer (Rack)	POR
MT-E376	DC Shunt Motor Coupled with DC Series Generator (Motor-Generator)	POR
MT-E376A	DC Shunt Motor Coupled with DC Series Generator Control Trainer	POR
MT-E376B	DC Shunt Motor Coupled with DC Series Generator Control Trainer (Rack)	POR
MT-E378A	3 Phase AC Squirrel Cage Induction Motor (Speed Control)	POR
MT-E378B	3 Phase AC Squirrel Cage Induction Motor (Load Test)	POR

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MT-E378C	3 Phase AC Squirrel Cage Induction Motor (Speed Control)_Rack	POR
MT-E378D	3 Phase AC Squirrel Cage Induction Motor (Load Test)_Rack	POR
MT-E380A	DC Shunt Motor Trainer (Speed Control)	POR
MT-E380B	DC Shunt Motor Trainer (Load Test)	POR
MT-E380C	DC Shunt Motor Trainer (Speed Control)_Rack	POR
MT-E380D	DC Shunt Motor Trainer (Load Test)_Rack	POR
MT-E395	Oil Testing Kit (Motorized)	POR
MT-E395A	Oil Testing Kit	POR
MT-E405A	DC Multiwinding Trainer (Speed Control)	POR
MT-E405B	DC Multiwinding Trainer (Load Test)	POR
MT-E405C	DC Multiwinding Trainer (Speed Control)_Rack	POR
MT-E405D	DC Multiwinding Trainer (Load Test)_Rack	POR
MT-E405E	DC Motor Control Trainer (Speed Control)_Rack	POR
MT-E407A	3 Phase Induction Motor (Speed Control) In Delta	POR
MT-E407B	3 Phase Induction Motor (Load Test) In Delta	POR
MT-E407C	3 Phase Induction Motor (Speed Control) In Delta(Rack)	POR
MT-E407D	3 Phase Induction Motor (Load Test) In Delta (Rack)	POR
MT-E407E	3 Phase Induction Motor	POR
MT-E410	DC Series Motor Coupled with DC Shunt Generator (MG Set)	POR
MT-E410A	DC Series Motor Coupled with DC Shunt Generator	POR
MT-E422A	3 Phase AC Synchronous Motor Trainer (Speed Control)	POR
MT-E422B	3 Phase AC Synchronous Motor Trainer (Load Test)	POR
MT-E422C	3 Phase AC Synchronous Motor Trainer (Speed Control)_Rack	POR
MT-E422D	3 Phase AC Synchronous Motor Trainer (Load Test)_Rack	POR
MT-E423	3 Phase Squirrel Cage Induction Motor Coupled with DC Shunt Generator (MG Set)	POR
MT-E423A	3 Phase Squirrel Cage Induction Motor Coupled with DC Shunt Generator Trainer	POR
MT-E423B	3 Phase Squirrel Cage Induction Motor Coupled with DC Shunt Generator Trainer_R	POR
MT-E424	3 Phase Energy Meter Control Trainer	POR
MT-E424A	3 Phase Energy Meter Control Trainer (Rack)	POR
MT-E425	Power and Power Factor in RLC Circuit Trainer	POR
MT-E425A	Power Factor in RLC Circuit Trainer	POR
MT-E425B	Power in RLC Circuit Trainer	POR
MT-E425C	Power and Power Factor in RLC Circuit Trainer (Rack)	POR
MT-E425D	Power Factor Correction in Single Phase RLC Circuit	POR
MT-E444A	3 Phase SQ Induction Motor Coupled with DC Comp. Generator Trainer	POR
MT-E444B	3 Phase SQ Induction Motor Coupled with DC Comp. Generator Trainer_R	POR
MT-E446A	DC Shunt Motor Coupled with DC Compound Generator	POR
MT-E446B	DC Shunt Motor Coupled with DC Compound Generator (Rack)	POR
MT-E452A	DC Compound Motor Trainer (Speed Control)	POR
MT-E452B	DC Compound Motor Trainer (Load Test)	POR
MT-E452C	DC Compound Motor Trainer (Speed Control)_Rack	POR
MT-E452D	DC Compound Motor Trainer (Load Test)_Rack	POR
MT-E453A	DC Series Motor Trainer (Speed Control)	POR

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MT-E453B	DC Series Motor Trainer (Load Test)	POR
MT-E453C	DC Series Motor Trainer (Speed Control)_Rack	POR
MT-E453D	DC Series Motor Trainer (Load Test)_Rack	POR
MT-E453F	DC SeriesTraction Motor Trainer (Speed Control)	POR
MT-E453G	DC SeriesTraction Motor Trainer (Speed Control)_Rack	POR
MT-E476	Parallel Operations of Two Alternators (Synchronization)	POR
MT-E476A	Parallel Operations of Two Alternators (Synchronization)_Rack	POR
MT-E476C	Parallel Operations of One Alternator With Infinite Bus Bar (Rack)	POR
MT-E514	DC Dynamometer for Motor Testing Experiment Set (Swinging Type)	POR
MT-E514A	DC Dynamometer for Motor Testing Experiment Set (Eddy Current Type)	POR
MT-E538	Electrical Machine Trainer (Electronics Mechanics)	POR
MT-E538A	Electrical Machine Trainer (3Motors)	POR
MT-E538B	Electrical Machine Trainer (6Motors)	POR
MT-E538C	Electrical Machine Trainer (Advance, 12Motors)	POR
MT-E538D	Electrical Machine Trainer (Advanced)	POR
MT-E544	Domestic House Wiring Control Trainer	POR
MT-E544A	Domestic House Wiring Control Trainer (Rack)	POR
MT-E544B	Domestic House Wiring Control Trainer (Rack)	POR
MT-E550	DC Shunt Motor Coupled with DC Shunt Generator (MG Set)	POR
MT-E550A	DC Shunt Motor Coupled with DC Shunt Generator	POR
MT-E550B	DC Shunt Motor Coupled with DC Shunt Generator (Rack)	POR
MT-E559A	DC Compound Motor Coupled with AC Alternator	POR
MT-E564B	3 Phase Squirrel Cage Induction Motor Coupled with DC Series Generator (Rack)	POR
MT-E566B	DC Series Motor Coupled with AC Synchronous Alternator (Rack)	POR
MT-E569B	DC Compound Motor Coupled with AC Synchronous Alternator (Rack)	POR
MT-E587C	Single Phase Shaded Pole Motor (Speed Control)_Rack	POR
MT-E608A	3 Phase Slip-Ring Induction Motor Coupled with DC Shunt Generator Trainer	POR
MT-E608B	3 Phase Slip-Ring Induction Motor Coupled with DC Shunt Generator(Rack)	POR
MT-E608C	3 Phase Slip-Ring Induction Motor Coupled with Self Exci. DC Shunt Generator_R	POR
MT-E609B	3Phase Slip-Ring Induction Motor Coupled with DC Compound Generator	POR
MT-E611	3 Phase Induction Motor Coupled with DC Shunt Generator(Mg Set)	POR
MT-E611A	3 Phase Induction Motor Coupled with DC Shunt Generator	POR
MT-E619A	AC-DC Mosfet Based Electrical Drive Trainer (Speed Control)_Rack	POR
MT-E647A	AC Machine Trainer	POR
MT-E647B	AC Machine Trainer (With 6 Different Starters)	POR
MT-E648A	DC Machine Trainer	POR
MT-E648B	DC Machine Trainer (3 Motors)	POR
MT-E703	Power Measurement by CTand PTin Three Phase Circuit	POR
MT-E703A	Power and Power Factor Measurement by CTand PT in Three Phase Circuit (Rack Type)	POR
MT-E705A	DC Shunt Motor Coupled with Three Phase AC Slip Ring Generator	POR

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MT-E705A	DC Shunt Motor Coupled with Three Phase AC Slip Ring Generator(Rack Type)	POR
MT-E718	Single Phase AC Machine Trainer (6 Motors)	POR
MT-E734	Power and Power Factor Measurement in 3 Voltmeter and 3 Ammeter Method	POR
MT-E734B	Power Measurement in 3 Voltmeter and 3 Ammeter Method	POR
MT-E734B	Power Factor Measurement in 3 Voltmeter and 3 Ammeter Method	POR
MT-E739	Meter Working Demonstrator	POR
MT-E749A	DC Compound Motor Coupled with DC Compound Generator	POR
MT-E757D	Single Phase AC Series Motor (Load Test)_Rack	POR
MT-E881	Measurement of % Ratio Error and Phase Angle of Given PT by Null Method	POR
MT-E870	Calibration of LPF Wattmeter by Phantom Loading	POR
MT-E882	Measurement of % Ratio Error and Phase Angle Of Given CT by Null Method	POR
MT-E966	Measurement of 3 Phase Active And Reactive Power With Single Phase Wattmeter	POR

POWER SYSTEM/ RELAY LAB

MT-E281	Three Phase Transmission Line Trainer (Basic Model)	POR
MT-E281A	Three Phase Transmission Line Trainer (Fault Simulator)	POR
MT-E281A	Three Phase Transmission Line Trainer (Protection System)	POR
MT-E281C	Three Phase Transmission Line Trainer (with Fault Simulator and Protection System)	POR
MT-E281D	Three Phase Transmission Line Trainer	POR
MT-E290A	Differential Transformer Protection Relay (Microcontroller Type)	POR
MT-E290A	Differential Transformer Protection Relay (Numerical Type)	POR
MT-E290B	Differential Transformer Protection Relay (Electromechanical Type)	POR
MT-E290A	3 Phase Percentage Biased Differential Protection Relay Trainer	POR
MT-E315A	Over Voltage Relay (Static)	POR
MT-E315C	Over Voltage Relay (Electromechanical Type-Voltage Setting)	POR
MT-E316A	Under Voltage Relay (Static)	POR
MT-E316C	Under Voltage Relay (Electromechanical Type-Voltage Setting)	POR
MT-E317	Negative Phase Sequence Relay (Static)	POR
MT-E318A	Earth Fault Relay Trainer (Static)	POR
MT-E318B	Earth Fault Relay Trainer (Electromechanical Type)	POR
MT-E319	Over Current Relay Trainer (Static)_Rack	POR
MT-E319A	Over Current Relay Trainer (Static)	POR
MT-E319B	Over Current Relay Trainer (Electromechanical Type)	POR
MT-E319D	Over Current Protection Relay Trainer (Numerical)	POR
MT-E320	Reverse Power Relay (Static)	POR
MT-E332	Buchholz Relay Trainer	POR
MT-E332A	Buchholz Relay Trainer (On Aluminum Profile)	POR
MT-E344	Motor Generator Trainer with Protection Relay Trainer	POR

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MT-E346	Three Phase Induction Motor With Numerical Protection Relay	POR
MT-E385	Single Phase Transmission Line Trainer	POR
MT-E434	Calibration of CTand PT	POR
MT-E434A	Calibration of CTand PT (On Aluminium Channel)	POR
MT-E447	Characteristics of Fuse And MCB	POR
MT-E447A	Characteristics of Fuse And MCB (On Aluminium Channel)	POR
MT-E518	3 Phase Protection System Simulator	POR
MT-E518A	Electrical Safety Trainer	POR
MT-E553	Industrial Installation Trainer	POR
MT-E553A	Industrial Installation Trainer (On Aluminium Channel)	POR
MT-E595	Current Transformer Unit	POR
MT-E595A	Calibration of Current Transformer (CT)	POR
MT-E595B	Calibration of Current Transformer (CT) (On Aluminium Channel)	POR
MT-E596	Potential Transformer Unit	POR
MT-E596A	Calibration of Potential Transformer (PT)	POR
MT-E546	Electrical Installation Trainer	POR
MT-E579	Over and Under Voltage Relay Trainer (Static)	POR
MT-E579A	Over and Under Voltage Relay Trainer(Electromechanical on Aluminium Channel)	POR
MT-E579B	Over and Under Voltage Numerical Protection Relay Trainer	POR
MT-E579C	Over and Under Voltage Relay Trainer(Electromechanical)	POR
MT-E551A	3Phase Protection System Control Trainer	POR
MT-E612	Under and Over Frequency Relay (Static)	POR
MT-E704B	Protective Relaying Training System (Protection)	POR
MT-E740A	Power Transmission and Distribution Training System	POR
MT-E833	Distance Protection Relay Training System	POR
MT-E838A	Over Current Relay and Earth Fault Relay Trainer (Electromechanical Type)	POR
MT-E837	Feeder Management Protection Relay Training System	POR
MT-E864	Directional and Non Directional Over Current Protection Relay Trainer	POR
MT-E866	Primary Current Injection Test Kit	POR
MT-E909A	3 Phase Over Current/ Earth Fault Relay Trainer (Electromechanical)	POR
MT-E930	Merz Price Protection For Alternator Trainer	POR
MT-E932	3Phase Motor Fault Simulator with Numerical Relay Trainer	POR

DISPLAY BOARDS

MT-E990	Resistance and Color Code Display Board	POR
MT-E991	Capacitance and Color Code Display Board	POR
MT-E992	Display Board of Different Types Diode	POR
MT-E994	Different Type Transistors Display Board	POR
MT-E1033	Display Board of Different Types Inductors	POR
MT-E1035	Display Board of Different Types Fuses	POR

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MT-E1036	Display Board of Different Types Wires	POR
MT-E1037	Display Board of Different Types Transformers	POR
MT-E1038	Display Board of Different Types Switches	POR
MT-E1077	Potentiometer Display Board	POR
MT-E1078	Display Board of to Study Different Ic's	POR
MT-E1079	Display Board of to Study Different Band Switch	POR
MT-E1081	Display Board of to Study Different Connectors Band Switch	POR

STANDARD WORKBENCHES

MT-E281E	0.2KW Electric Power Transmission Training System (Workbench)	POR
MT-E331	Electrical Workbench	POR
MT-E657	Electronics Workbench	POR
MT-E957	High Voltage Power Electronics Bench	POR
MT-E5K75	Computer Network and Cyber Security Workbench	POR
MT-E934	Solar System Workbench (DC-DC and DC-AC Applications)	POR

MECHANIC ELECTRICAL VEHICLES

MT-E692D	Batter Characteristics Trainer	POR
MT-E692DL	Batter Characteristics Trainer with Data Logger	POR
MT-E692F	Battery Management System Trainer	POR
MT-E692G	Electrical Vehicle Wiring Working Model Training Setup	POR
MT-E692I	IOT Based Electrical Vehicle Wiring Working Model Training Setup	POR
MT-E692B	BLDC Motor Control Trainer (Load Test)	POR
MT-E588C	Permanent Magnet DC Motor (PMDC) Trainer	POR
		POR

HYDRAULIC/ PNEUMATICS

MT-E8016	Hydraulic Trainer	POR
MT-E8016P	Hydraulic Trainer (PLC Control)	POR
MT-E8019	Pneumatic Trainer	POR
MT-E8019P	Pneumatic Trainer (PLC Control)	POR

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4. GST: GST @ 18% will be charged extra, as applicable.	
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9. Governing Law & Jurisdiction: a. All contractual relations between <i>Mind Tek Engineering Solutions</i> and the Customer shall be governed exclusively by the laws of India.b. Any dispute arising directly or indirectly from the contractual relationship shall be subject to the exclusive jurisdiction of the courts at Ambala, Haryana.	
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Our Certifications

UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER: UDYAM HR-01 0025700

NAME OF ENTERPRISE: MIND TEK ENGINEERING SOLUTIONS

TYPE OF ENTERPRISE: 8

MANUFACTURING

GENERAL

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE: 06-10-2021

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS: 06-10-2021

NATIONAL INDUSTRY CLASSIFICATION CODE(S): 2710

DATE OF UDYAM REGISTRATION: 18/04/2024

For any assistance, you may contact:

1. District Industries Centre: AMBALA (HARYANA)

2. MSME DFO: KARNAL (HARYANA)

Certificate of Compliance

CE

We hereby declare that the technical files of all the items in each product group complies with the requirements of the 2014/53/EU Low Voltage Directive.

Certificate No.: CE - 6281

Manufacturer: MIND TEK ENGINEERING SOLUTIONS

Address: CROSS ROAD NO.5, 865/1, NEAR HARGOLAL POST OFFICE, NEAR HARGOLAL POST OFFICE, AMBALA CANTT, AMBALA, HARYANA, 130001, INDIA.

Products: ELECTRICAL/ELECTRONICS TRAINING KITS

Complies with the requirements applicable to it

The quality system file has been examined, approved and is subject to continuous surveillance according to the 2014/53/EU Low Voltage Directive.

This certificate is issued under the following conditions:

1. It applies only to the quality system maintained in the manufacturing process, if required.

2. The certificate remains valid until the manufacturing conditions or the quality system are changed.

3. The certificate validity is conditioned by positive results on surveillance audits.

The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of a CE Declaration of conformity and compliance with all relevant CE Directives. The statement is based on a single evaluation of two parts of one sample of above mentioned product. It does not imply an assessment of the whole production.

Validity of this certificate can be verified at www.ukcertifications.org.uk/verify

Date of Certification: 12th December 2024

1st Surveillance Audit Due: 11th December 2025

2nd Surveillance Audit Due: 11th December 2026

Certificate Expiry: 11th December 2027

Authorised Signatory: [Signature]

Certificate of Registration

QRO

QUALITY RESEARCH ORGANIZATION

This is to certify that

MIND TEK ENGINEERING SOLUTIONS

CROSS ROAD NO.5, 865/1, NEAR HARGOLAL POST OFFICE, NEAR HARGOLAL POST OFFICE, AMBALA CANTT, AMBALA, HARYANA, 130001, INDIA.

has been independently assessed by QRO and is compliant with the requirement of:

ISO 9001:2015

Quality Management System

For the following scope of activities:

MANUFACTURING ELECTRICAL/ELECTRONICS TRAINING KITS

Date of Certification: 12th December 2024

1st Surveillance Audit Due: 11th December 2025

2nd Surveillance Audit Due: 11th December 2026

Certificate Expiry: 11th December 2027

Certificate Number: 305024121261Q

Head of Certification: [Signature]

Certificate of Registration

QRO

QUALITY RESEARCH ORGANIZATION

This is to certify that

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CROSS ROAD NO.5, 865/1, NEAR HARGOLAL POST OFFICE, NEAR HARGOLAL POST OFFICE, AMBALA CANTT, AMBALA, HARYANA, 130001, INDIA.

has been independently assessed by QRO and is compliant with the requirement of:

ISO 14001:2015

Environmental Management System

For the following scope of activities:

MANUFACTURING ELECTRICAL/ELECTRONICS TRAINING KITS

Date of Certification: 12th December 2024

1st Surveillance Audit Due: 11th December 2025

2nd Surveillance Audit Due: 11th December 2026

Certificate Expiry: 11th December 2027

Certificate Number: 305024121262E

Head of Certification: [Signature]

Certificate of Registration

QRO

QUALITY RESEARCH ORGANIZATION

This is to certify that

MIND TEK ENGINEERING SOLUTIONS

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has been independently assessed by QRO and is compliant with the requirement of:

ISO 45001:2018

Occupational Health and Safety Management System

For the following scope of activities:

MANUFACTURING ELECTRICAL/ELECTRONICS TRAINING KITS

Date of Certification: 12th December 2024

1st Surveillance Audit Due: 11th December 2025

2nd Surveillance Audit Due: 11th December 2026

Certificate Expiry: 11th December 2027

Certificate Number: 305024121263HS

Head of Certification: [Signature]

JUNE 2025

MIND TEK ENGINEERING SOLUTIONS



ELECTRICAL WORKBENCH
PRODUCT CODE: MT-E331A



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POWER ELECTRONICS WORKBENCH

SCOPE OF LEARNING:

- Supply and Single Phase Low Voltage Power Supply
- Half Wave Uncontrolled Rectifier on Lamp Load & Motor Load
- Half Wave Uncontrolled Rectifier on Motor Load with Freewheeling Diode
- Full Wave Uncontrolled Rectifier on Lamp Load & Motor Load
- Full Wave Uncontrolled Rectifier on Motor Load with Freewheeling Diode
- Bridge Uncontrolled Rectifier on Lamp Load & Motor Load
- Bridge Uncontrolled Rectifier on Motor Load with Freewheeling Diode
- Ramp and Comparator Firing Circuit
- Half Wave Controlled Rectifier on Lamp Load & Motor Load
- Half Wave Controlled Rectifier on Motor Load with Freewheeling Diode
- Full Wave Controlled Rectifier on Lamp Load & Motor Load
- Full Wave Controlled Rectifier on Motor Load with Freewheeling Diode
- Bridge Controlled Rectifier on Lamp Load & Motor Load
- Bridge Controlled Rectifier on Motor Load with Freewheeling Diode
- Semiconverter common cathode configuration on Lamp Load
- Bridge inverter
- Step up chopper & step down chopper
- Study of Chopper Firing Circuit
- Study of Inverter Firing Circuit
- Study of Cycloconverter and its Firing Circuit



**MT-E957A HIGH VOLTAGE
POWER ELECTRONICS TEST BENCH**



SCOPE OF LEARNING:

- Single Phase Rectifier and Bridge Converter
- Three Phase Rectifier and Bridge Converter
- Step Up and Step Down Chopper
- Inverter Single Phase Half Bridge and Full Bridge
- Temperature PID Controller
- DC to DC Generation
- DC to AC Generation
- Operation on Dynamometer
- Three Phase Induction Motor

**MT-E657C POWER ELECTRONIC
TRAINING SYSTEM (TEST BENCH)**

SCOPE OF LEARNING:

- Supply and Single Phase Low Voltage Power Supply
- Half Wave Uncontrolled Rectifier on Lamp Load & Motor Load
- Half Wave Uncontrolled Rectifier on Motor Load with Freewheeling Diode
- Full Wave Uncontrolled Rectifier on Lamp Load & Motor Load
- Full Wave Uncontrolled Rectifier on Motor Load with Freewheeling Diode
- Bridge Uncontrolled Rectifier on Lamp Load & Motor Load
- Bridge Uncontrolled Rectifier on Motor Load with Freewheeling Diode
- Ramp and Comparator Firing Circuit
- Half Wave Controlled Rectifier on Lamp Load & Motor Load
- Half Wave Controlled Rectifier on Motor Load with Freewheeling Diode
- Full Wave Controlled Rectifier on Lamp Load & Motor Load
- Full Wave Controlled Rectifier on Motor Load with Freewheeling Diode
- Bridge Controlled Rectifier on Lamp Load & Motor Load
- Bridge Controlled Rectifier on Motor Load with Freewheeling Diode
- Semiconverter common cathode configuration on Lamp Load
- Bridge inverter
- Step up chopper & step down chopper



MT-E957 POWER ELECTRONICS WORKBENCH

ELECTRICAL & ELECTRONICS WORKBENCH

SCOPE OF LEARNING:

Study of AC-DC Calibration through Test Bench.

SALIENT FEATURES:

- Power Indication for 3Phase through R-Y-B Indicators.
- Front panel built with high class insulated Printed Bakelite/Aluminum Board sheet with well printed circuits and symbols.
- 4 Pole MCB and 2 Pole MCB for Short Circuit protection
- Instruction manual.
- Connections are brought out through 4mm Colored Safety Sockets.
- Patch Cords 4mm.
- Size of Workbench 5.5Feetx3Feet and Height of Bench 6Feet with ESD mat on the Bench
- Bench on MS Square Channel with 3Nos. Drawer with good quality board.
- Drawer with Key and Lock arrangement.
- Panel Cabinet made of Ms Sheet Metal Cabinet and MS Power Coated and Back Side Removable in 2 Parts.
- 4Feet LED Tube for the Lighting.
- Size of the Workbench set 48"x30"



MT-E331 ELECTRICAL WORKBENCH



SCOPE OF LEARNING:

Study of AC-DC Calibration through Test Bench.

SALIENT FEATURES:

- Power Indication for 3Phase through R-Y-B Indicators.
- Front panel built with high class insulated Printed Bakelite/Aluminum Board sheet with well printed circuits and symbols.
- 4 Pole MCB and 2 Pole MCB for Short Circuit protection
- Instruction manual.
- Connections are brought out through 4mm Colored Safety Sockets.
- Patch Cords 4mm.
- Size of Workbench 5.5Feetx3Feet and Height of Bench 6Feet with ESD mat on the Bench
- Bench on MS Square Channel with 3Nos. Drawer with good quality board.
- Drawer with Key and Lock arrangement.
- Panel Cabinet made of Ms Sheet Metal Cabinet and MS Power Coated and Back Side Removable in 2 Parts.
- 4Feet LED Tube for the Lighting.
- Size of the Workbench set 48"x30"

MT-E331B AC-DC ELECTRICAL WORKBENCH

Electronic Work Bench to our highly esteemed clients. It is used as testing and measurement instrument to meet the varied demands of our patrons. Best quality raw material and progressive machinery is used in its making in sync with the industrial set norms and standards. Electronic Work Bench is applauded by our clients for its durability, accuracy, quality, strength and has a long life. Clients can avail it from us at cost- effective prices.

FEATURES:

- All devices (Instruments, Power Supplies, etc) are integrated in the device panel with modular construction
- Workbench have painted frame and device panel made of laminated board
- All fitting supplied with uniform color scheme
- Lockable wheels are provided on all four legs



MT-E657 ELECTRONICS CALIBRATION TEST BENCH

POWER TRANSMISSION & SOLAR WORKBENCH



SCOPE OF LEARNING:

- DC to DC Generation
- DC to AC Generation
- Study of 3Phase Transmission Line
- Study of 3Phase Transformer

MT-E281E 0.2KW ELECTRIC POWER TRANSMISSION TRAINING SYSTEM (TEST BENCH)

BASED ON BASIC SOLAR DC LOW VOLTAGE

- Energy storage.
- Working of Led
- Working Bulb
- Working of Motor as a Fan
- Working of Buzzer
- V-I Characteristics of Solar Cell in series and parallel
- Buzzer for Sound energy
- Fan for electromechanical energy.
- Voltmeter for voltage measurement.
- Current meter for Current Measurement.
- Mobile Charging Using Solar

BASED ON DC TO DC

1. Measurement and Analysis of Different parameters of Solar PV Module
 - a. Open circuit voltage (Voc) and short circuit current (Isc) of Solar PV module
 - b. Parameters measurement with parallel Solar PV modules
 - c. Parameters measurement with series Solar PV modules
 - d. I-V characteristics of PV Module and PV Array
 - e. Power curve of PV Module and PV Array
 - f. Efficiency
 - g. Fill Factor
2. Study of charge controller
3. Analysis and calculate the system efficiency and losses at different stages
4. Study the Batteries and their specification Testing of battery using gravity hydrometer

5. Analysis the effect of dust on Solar PV module
6. Shaded Effect
7. Study of DC Load/ Measurement of Solar Power Watt Per Meter Square

BASED ON DC TO AC

1. Understanding & estimating Solar PV system
2. Load Estimation and calculation
3. Understanding units kVA and kWatt for Inverter and Solar PV Modules
 4. Study of different parameters of Inverter
 - a. Efficiency measurement
 - b. PWM switching technique
 - c. Charging of batteries
 - d. Protection like over load and low battery
 5. Analysis of electricity generation from Solar PV system
 6. Analysis of battery backup at different load
 7. Study the Batteries and their specification Testing of battery using gravity hydrometer
 8. Analysis the effect of dust on Solar PV module
 9. Study of different parameters of Inverter
 - a. Efficiency measurement
 - b. PWM switching technique
 - c. Charging of batteries
 - d. Protection like over load and low battery
10. Study about safety and precaution for installation of Solar system



MT-E934 SOLAR CELL WORKBENCH FOR (BASIC DC-DC AND DC-AC APPLICATIONS)

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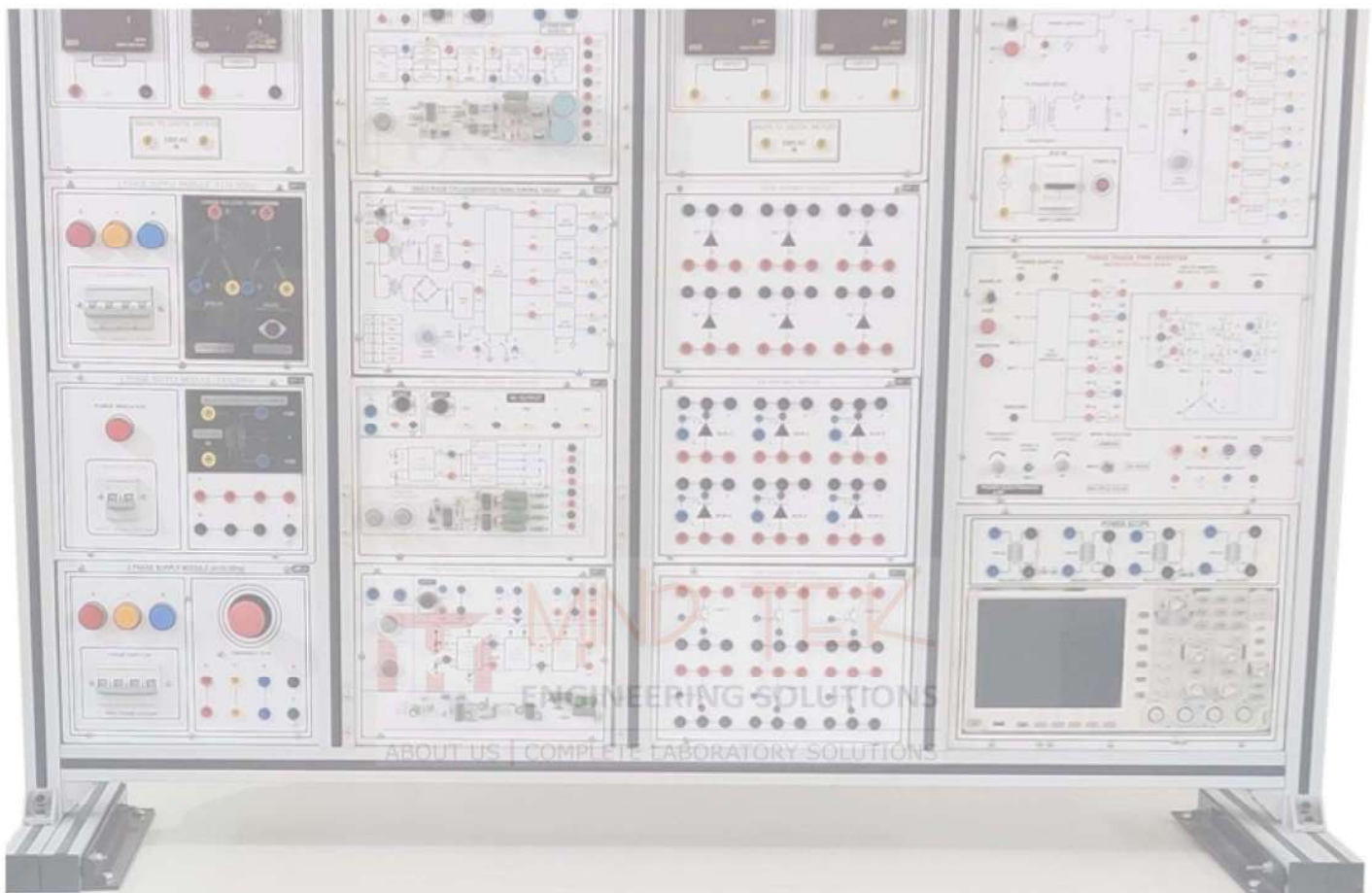
MIND TEK ENGINEERING SOLUTIONS

Contact

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Here's what's to come!

RF/Microwave/Antenna

- RF Simulation Software
- RF Circuit Trainer
- Advanced Microstrip Component Trainer 3GHz
- Advanced Motorized Antenna Trainer 4 GHz
- Add-On Low cost 1 MHz to 3 GHz VNA
- Add-On Lowcost Spectrum Analyser

- HIGHER EDUCATION
- SKILL DEVELOPMENT
- SCHOOL

Lab Solutions:

PHYSICS

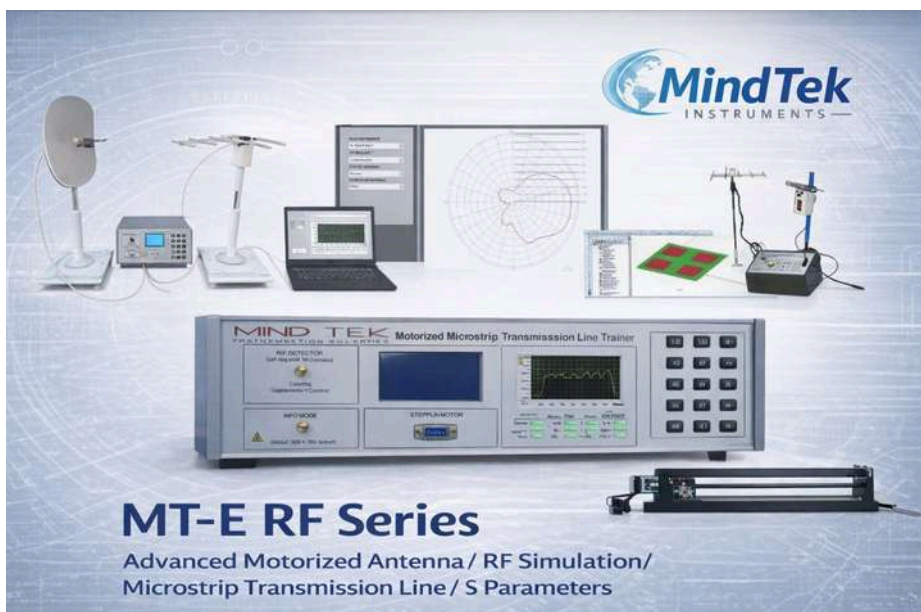
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ELECTRICAL

RENEWABLE
ENERGY

IoT/ IIoT/ AIoT

MECH/ CIVIL



MT-E RF Series

Advanced Motorized Antenna / RF Simulation/
Microstrip Transmission Line / S Parameters

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Here's what's to come!

Physics/ Fiber Optic

- Planer Waveguide Trainer
- Physics of Fiber Optic Trainer
- Training Module Trainer- CWDM, WDM, Passive Components, Source Detector, OTDR
- Add- On OTDR as an Instrument Low cost
- Fusion Splicing Machine and Tool Kit
- Physics Lab Trainer- Fiber Optic Trainer/ Sodium Light/ Laser Different Experiments Set ups/ Hall Effect and many more..



- HIGHER EDUCATION
- SKILL DEVELOPMENT
- SCHOOL

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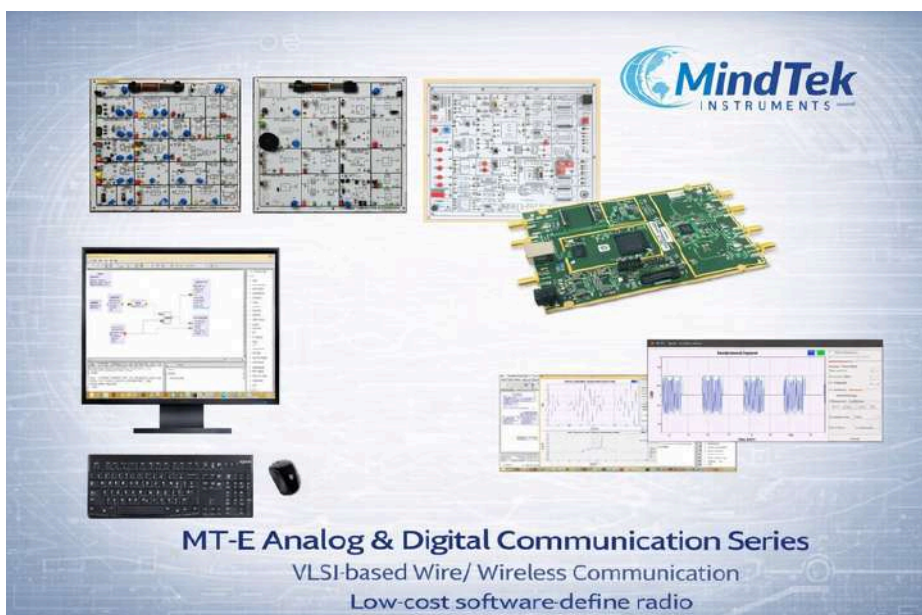
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Here's what's to come!

Basic Electronics/ Analog & Digital Communication

- Analog Lab Trainer
- Digital Lab Trainer
- Analog Digital and Mixed Signal Simulation Software
- Advanced Analog Communication Trainer
- VLSI Based Basic Communication Trainer
- VLSI Based Advanced Communication Trainer
- Software Defined Radio low cost with Laptop and Software



- HIGHER EDUCATION
- SKILL DEVELOPMENT
- SCHOOL

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Here's what's to come!

Wireless Communication

- WSN Lab
- IOT Lab
- AI Lab
- DSP/VLSI/ARM/Processor Trainer
- Network Lab Trainer/Workbench

- HIGHER EDUCATION
- SKILL DEVELOPMENT
- SCHOOL

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Here's what's to come!

Electrical

- Electrical Machine AC-DC Trainer/ Workbench
- Power Electronics Trainer/ Workbench
- Power System Trainer
- Control Lab Trainer
- Renewable Energy Lab Trainer
- Mechanic Electrical Vehicle Trainer
- Power Engineering Trainer
- Instrumentation Lab Trainer



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