

Welcome to Sigma Trainers

Profile of Sigma Company

- We introduce ourselves as the biggest manufacturer in the world with the highest range of trainers – **5000 Nos.**
- SIGMA Groups – Sigma Trainers, Sigma Exports, Sigma Trainers and Kits, Sigma Training Institute.
- We are manufacturing these trainers with quality components and the latest Technology as per the syllabus of I.T.I, Polytechnics, and Engineering Colleges since last 30 years.
- Our products prices are from Rs. 10000 to Rs. 25 lacs each.
- We are manufacturing more than 5000 trainers, which is the biggest range in the world in 22 different categories under the brand "SIGMA".
- We are exporting our trainers all over the world in 37 countries like Japan, Singapore, Dubai, Malaysia, Vietnam, USA, and Africa etc.
- Our trainers are World Class Level Trainers - Compared to Feedback and ED Laboratory
- We provide Low cost, Medium Cost and High Cost trainers for ITI, Polytechnics and Engineering Colleges respectively.
- We provide our trainers as well as Trainers equivalent to all other manufacturers also.
- We provide Complete Package for all Experiments of any subject as per syllabus.
- We provide Pre-demo to compare our trainers with other Manufacturers.
- We designed many trainers which are First Time in the World like Colour TV Trainer, PSTN etc,
- We have owned R & D in which new design can be made within 2-3 days. Also any Suggestions / Changes can be incorporated immediately.
- We can design tailor made design as per customer requirement.
- We provide separate Basic Block Modules to design Complete Circuit by Students themselves.
- We provide everything for training i.e Trainers, Demonstrators, Simulators, Books, Charts, Projects Kits, Softwares, Practical Demonstration CD, Training lectures CD, Training of Instruments etc.
- Our Important Customers are – ITIs, Polytechnics, Engineering Colleges, Technical Classes, University, ETDC, ESTC, CEDT, Air Force, Military, GTS, Government Testing and training centers, IIT, REC, NIT, Indian Navy service, TTTI, Science colleges etc.
- We provide Website Login facility for Manual and Other data download from our Huge data of 30 Year's Experience in training field.
- Our knowledge database is strongly supported by our knowledge website **www.drlohar.com**
- We send Monthly News Letter to our members for updating latest technology of the world. We provide Our Product DVD with all Specification of Our trainers in .htm, .doc and .pdf formats.

Features of Sigma Trainers compared to other Manufacturers

Trainer and Circuit Features

- Multicolor Sectionwise Single Big PCB for Easy Identification of sections.
- The performance is better due to less wiring and less distortion due to Single PCB.
- The Trainer becomes more rigid due to single PCB.
- Explanation, Observation, Alignment of controls is possible at a glance due to single PCB.
- Sectionwise Circuit Blocks on Single PCB for easy learning of circuits
- The Blocks can be isolated to connect any other circuit or trainers.
- All Parts are on Topside of PCB with true value printed for easy identification, learning and servicing.
- No hiding of Part Number, type and quality due to parts on topside.
- Very Less Connectors for easy operation of all experiments.
- Multicolor 2mm Connector & Socket for easy learning of Blocks and for easy connection of CRO Probes.
- Sectionwise 2mm Special Long Pins for easy connecting of CRO probes.
- Acrylic Cover for Safety of PCB and Parts.
- Strong Wooden box for storing one upon another and for easy storage in Cupboards.
- Wooden Box Cover with Hinge, Locks and Key for safety.
- Model Number Stickers on Both sides of Wooden Box for easy identification from cupboard etc.
- PCB and Wooden box size as per circuits – Not same size Box for all trainers.
- Built in Power supply for easy Operation and Built in Mains cord.
- Built in all Generators - Sine, Pulse, RF and Data Generators – Hence only CRO/DSO/Spectrum required.
- Each Trainer with Builtin Separate Modulation and Demodulation Sections for Real System / Channel.
- Each Trainer with Builtin Separate Coding and Decoding Sections for Real System / Channel.
- Circuit Frequencies Designed for easy observation of Spectrums on Spectrum Analyser .
- Circuit Frequencies Designed as per Real Transmission Channel.
- Circuit Designed with very few common Discrete Ics for easy servicing and availability of Ics. Hence the Internal / Block wise signals can be observed.
- Also All Ics are easily available in the market for emergency servicing
- Circuit Designed on Digital and Analog Ics and Not on Single VLSI Chip, for easy learning of Blocks.
- Circuit Designed is Simple Circuit to avoid unnecessary complication for learning.
- Circuit Designed by Professor and Director, who taught this subject for 20 years.
- Circuit Designed as per Textbooks for relating theory and Practicals.

- Circuit Designed as per State of Art - Latest world circuit – as per World top Ten Universities.
- Circuit Designed with Analog Pots for continuous waveforms observation - Not as Digital Switches.
- Circuit Designed with both Coherent / Non Coherent demodulation.
- Big Switches are provided for inputs for easy operation – Not as small DIP Switches.
- No unnecessary fault switches are given for creating confusion to students.
- All Ics are provided on Ic sockets for easy servicing.
- Each Trainer is a full system and not a simply demonstrator.
- Holes are provided for Presets on Acrylic Cover for easy calibration and servicing.
- Free Service Kit - Alignment Screw Driver, Extra Ics, Extra Connectors/Jumpers with each trainer.

Manuals Features

- Simple Non-Confusing Multicolor Manual
- Theory in Multicolor
- Circuit Explanation in detail
- Block diagram in Multicolor
- Experiments process in detail
- Test Reports and Tables with Calculation and Readings
- Graphs and Charts wherever applicable
- Main IC data provided in the manual
- Q/A and Solutions
- References – Authors, Books, Articles and Websites
- Warranty Card with Serial Number
- Complete Circuit in Single Page
- Soft copy of Manual on CD in .doc form to make instructor's notes.
- Multicolor Clickable E-manual on CD
- Relevant Software on CD
- Multicolor PPT Slides on CD

Experiment Features

- Theory given is as per Syllabus and Text Book. The whole circuit explained section wise in detail.
- Block diagram provided as per Syllabus and Text Book
- Separate Connection Diagram provided for each experiment
- CRO and Spectrum Analyser setup provided for each experiment for easy learning
- Multicolor True Waveforms are given for easy observation and learning
- True Stable Waveforms for easy observing on any CRO.
- True Waveforms provided - Both Time and Frequency Domain measurement
- True waveforms provided with Photographs on CRO – Not only theoretical
- True Spectrum waveforms provided with Photographs on Spectrum Analyser – Not only theoretical
- Waveforms given are in **sequence** for any circuit and not in random method
- True Waveforms provided which are matching with Theory of textbook
- Waveforms provided with frequency and Amplitude levels
- Waveform provided with Horizontal and Vertical Trigger level and Amplitude for easy operation on CRO
- True Time domain measured waveforms on CRO measurement
- True Frequency Domain Spectrums on Spectrum Analyser measurement
- True Gaussian Noise measurement on CRO as well as on Spectrum analyser
- MATLAB Simulation provided for each circuit
- Comparison of results of CRO, Spectrum Analyser and Matlab Simulation

Complaints Support Features

- Local support for Complaint
- Email support for Complaint from Company
- Email support for more knowledge and data on request
- Q/A support by Email
- Online Manual Support from Company Website
- Books / Lectures / PPT Slides Support
- All type of upgrade Support - Software upgrade, Trainer upgrade, VOIP Account upgrade
- Call back support facility for any problem.
- Buyback support for Old trainers for New Syllabus
- Live Phone Demo support with Call back facility
- Live Lecture Support from Company with Call back facility
- Live Video Conferencing Support

- All Support backed by D R Luhar – Director of Company – (See Company Profile)
- SMS support by Company's SMS Server (09824001649)

Training Support Features (at our Factory)

- Factory Visit for Students for Final Year
- Factory Visit for Staffs for Higher Learning
- CRO Setup Training
- Spectrum Setup Training
- METLAB Setup Training
- DSO Setup Training
- Pattern Generator Training
- Noise Generation & Calculation Training

Free Accessories for Complete Package Purchase of All Trainers of Any Laboratory

- Digital Communication Book Free – Written By D R Luhar (For Purchase with DCOM Lab Trainers)
- Analog Communication Book Free – Written By D R Luhar (For Purchase with ACOM Lab Trainers)
- Voice Network Book Free – Written By D R Luhar (For Purchase with VN Lab Trainers)
- Audio Video Engineering Book Free – Written By D R Luhar (For Purchase with AV Lab Trainers)
- Spectrum Analyser Learning Book Free – Written By D R Luhar (For Purchase with ACOM/DCOM Lab)
- All Sigma Books Free – Written By D R Luhar
- All Lecture CD Free – Written By D R Luhar
- All Chart CD Free – Written By D R Luhar
- All Multicolor PPT + Pdf + Charts Free – Written By D R Luhar
- MATLAB Student version free
- Free News Letter every month for New Technology upgrade
- All Updates and upgrades Free for Software, Manuals, CD, Charts
- Two 10:1 Probe Free
- Free 4GB Pen Drive with all above data and Many good Softwares
- Free live lecture for One day by D R Luhar at Your Institute for Orders of more than Rs. 3 lacs