

Electrical engineering	Electronics	Digital electronics and microcomputer technology	Building management systems	Power electronics	Communications technology	Measurement technology	Automation	Mechatronics	Automotive technology	Automotive technology	Basic equipment and accessories
DC technology SO4204-4D	Semiconductor components SO4204-5A	Gates and flip-flops SO4204-6A	Protective measures and power network types SO4204-4M	Self-commutated power converters SO4204-7M	Quadrupoles and filters SO4204-9A	Measurement of electric values V/I/P/cos-phi/f SO4204-8A	Compact automation, PLC and bus technology SO4204-8N	Transfer system with DC drive SO4204-8K	DC and AC circuits in vehicles SO4204-7A	LIN bus SO4204-7E	Basic equipment
AC technology SO4204-4F	Transistor multivibrators SO4204-5D	Sequential circuits SO4204-6C	Control systems / protective circuitry SO4204-4N	Line-commutated power converters, 3-phase SO4204-7N	Active filters with operational amplifiers SO4204-9B	Measurement of non-electric values Temp./pressure/force SO4204-8B	PLC model lift application SO4204-8T	Transfer system with three-phase drive SO4204-8L	Electronics and digital technology in vehicles O4204-7B	CAN bus SO4204-7K	UniTrain-I interface SO4203-2A
Three-phase technology SO4204-4H	Transistor and amplifier technology SO4204-5H	Application circuits SO4204-6E	LED lighting and colour detection SO4204-4P	Frequency converter drives SO4204-7P Requires SO4204-7M and SO4204-7T	Coaxial cables SO4204-9G	Measurement of non-electric values Displacement/angle/speed SO4204-8C	Sensors for automation SO4204-8U	Sorting sub-system SO4204-8M	Automotive electrical fundamentals SO4205-1D	Optical data buses for automotive applications SO4204-7H	UniTrain-I measurement accessories (shunts, jumpers and connection cables) SO4203-2J
Magnetism / electromagnetism SO4204-4A	Field-effect transistors SO4204-5K	Converter circuits SO4204-6B	Electrical power engineering	Active power factor correction (PFC) SO4204-7Q	Fibre optics SO4204-9E	RLC measurements SO4204-8D	Process technology: IPA 1 Compact station SO4204-3E	Assembly sub-system SO4204-8O	PWM signals in automotive engineering SO4204-7J	FlexRay SO4204-6Y	Basic equipment EloTrain 2-mm plug-in system
Conducting measurements with the multimeter SO4204-4B	Operational amplifiers SO4204-5M	Fundamentals of computer technology SO4204-6H		Photovoltaics SO4204-3A	Electrical machines	4-wire lines SO4204-9F	Automatic control technology	Process technology: IPA 2 Mixing station SO4204-3F	Process sub-system SO4204-8P	Alternator / 3-phase generator SO4204-7D	Comfort systems and keyless entry SO4204-6G
Electrical network analysis SO4204-4C	Power semiconductor devices SO4204-5P	Supplement to SO4204-6H Applications and programming SO4204-6J	Transient processes in DC and AC networks SO4204-3B	DC machines SO4204-7S	Pulse modulation methods PAM/PCM/Delta SO4204-9I	Practical introduction to closed-loop control SO4204-8E	Process technology: IPA 3 Filling station SO4204-3G	Testing sub-system SO4204-8Q	Sensors in motor vehicles SO4204-7F	Autoshop communications and RFID SO4204-7G	EloTrain experimenter SO4203-3B
Electromagnetic compatibility (EMC) SO4204-4K	Analog power supplies SO4204-5R	EloTrain 2-mm plug-in system	Fuel cell technology SO4204-3C	Asynchronous machines SO4204-7T	Pulse modulation methods, PTM SO4204-9K	Analysis of control loops SO4204-8F	Process technology: IPA 4 Corking station SO4204-3H	Handling sub-system SO4204-8R	Pulse generation and ignition systems SO4204-7C	DC-AC conversion in vehicles SO4204-6L	EloTrain measurement accessories (bridge connectors and connection cables) SO5146-1N
Measurements using an oscilloscope SO4204-4L	Switched-mode power supplies SO4204-5S	Introduction to digital technology SO4206-1F		Synchronous and slip-ring machines SO4204-7U	Modem methods ASK, FSK, PSK SO4204-9L	Supplement to SO4204-8F Controller design & optimisation SO4204-8G	Pneumatics / hydraulics	Storage sub-system SO4204-8S	Common rail diesel injection system SO4204-6X	Hybrid drives in automobiles SO4204-6V	Digital multimeter Max10 LM2332
EloTrain 2-mm plug-in system	Circuit design using NI Multisim SO4204-5U	Sequential circuits SO4206-1G		Stepper motor SO4204-7W	AM / FM Modulation / Demodulation SO4204-9M	Supplement to SO4204-8G Software WINFACT SO6001-5Q	Pneumatics / electropneumatics SO4204-8V	Routing sub-system SO4204-8W	Traction control systems ABS / ASR / ESP SO4204-6W	Fuel cell technology in vehicles SO4204-6M	Required accessories
DC technology SO4206-1A	PCB layout with NI Ultiboard SO4204-5V	Microcontroller PIC16F887 SO4206-9A		Linear motor SO4204-7X	AM transmission and receiving technology SO4204-9N	Servo motor technology SO4204-8H	Hydraulics / electrohydraulics SO4204-8Y	Buffering sub-system SO4204-8X	Airbag, belt tensioners and crash response SO4204-6Z	Solar technology in vehicles SO4204-6N	Depending on the course an extended power supply and a number of UniTrain-I experimenters are required.
AC and three-phase technology SO4206-1B	EloTrain 2-mm plug-in system	Programming 32-bit ARM Cortex M3 microcontrollers SO4206-9B		Three-phase transformer SO4204-7Y	Data acquisition using RFID SO4204-9S			Production line SO4204-8Z	Fundamentals of electrical engineering in vehicles SO4206-1J		UniTrain-I extended power supply SO4203-2D
	Semiconductors SO4206-1C	DSP using microcontroller 32-Bit ARM Cortex-M3 SO4206-9C		BLDC / servo motors SO4204-7Z	Network technology TCP/IP SO4204-9Q						UniTrain-I experimenter (quantity) SO4203-2B
	Basic electronic circuits SO4206-1D	FPGA - Design of circuits using VHDL SO4206-9E			Supplement to SO4204-9Q Network technology: Client integration SO4204-9R						Recommended accessories
	Optoelectronics SO4206-1E				Introduction to microwave technology SO4204-9U						UniTrain-I storage case SO4203-2Y
					Supplement to SO4204-9U Waveguide components SO4204-9V						Digital multimeter Multi 13S LM2330
					Antenna technology SO4204-9T						Wireless LAN USB device server (for wireless operation of the interface) LM9080
					Supplement to SO4204-9T Complex antenna systems SO4204-9Z						
					Microstrip technology SO4204-9Y						
											LabSoft Classroom Manager
											LabSoft Classroom Manager SO2001-5A
											Collections of assignments (for use with classroom manager)
											Electrical engineering SO2001-6A
											Electronics SO2001-6B
											Digital electronics SO2001-6C
											Electrical power engineering SO2001-6D
											Building management systems SO2001-6E

