

E6.1.3

COM3LAB MULTIMEDIA: MEASUREMENT TECHNOLOGY

E6.1.3.1

Basics of Electrical Engineering

E6.1.3.2

Operational amplifier

E6.1.3.3

Instrumentation & Sensor Technology



Basics of Electrical Engineering (E6.1.3.1)

Cat. No.	Description	E6.1.3.1	E6.1.3.2	E6.1.3.3
700 1101	COM3LAB Course: DC Technology I	1		
700 1201	COM3LAB Course: DC Technology II	1		
700 1301	COM3LAB Course: AC Technology I	1		
700 1401	COM3LAB Course: AC Technology II	1		
700 1501	COM3LAB Course: Electronic Components I	1		
700 1601	COM3LAB Course: Electronic Components II	1		
700 9101	COM3LAB Course: Protoboard II	1		
700 9102	COM3LAB: Protoboard II Accessories	1		
700 020	COM3LAB: Master Unit	1	1	1
700 022	Set of Safety Cables (2 mm, 16 Qty., 6 x 30 cm & 10 x 15 cm)	1	1	1
688 129	Mains cable with shock-proof plug and cold connector	1	1	1
700 00CBT	DVD: COM3LAB Software	1	1	1
700 027	COM3LAB: Suitcase	1*	1*	1*
700 8101	COM3LAB Course: Operational Amplifier		1	
700 8401	COM3LAB Course: Sensor Technology			1
700 8402	COM3LAB: Sensor Technology Accessories			1
	additionally required: 1 PC with Windows 7/8/10			

* additionally recommended

Basics of Electrical Engineering

The COM3LAB courses introduce the fundamentals of electrical engineering. They familiarise students with the measurement of current and voltage in direct and alternating current circuits. It also trains students in how to use function generators, multimeters and oscilloscopes.

Operational amplifier

This course gives you insight into the world of the operational amplifier. From the standard circuit to the implementation of a function generator, all important topic areas are dealt with. This course forms the basis for the courses of control technology.

Instrumentation & Sensor Technology

The operational amplifier COM3LAB course gives participants an understanding of important basic electronic circuits such as amplifiers, filters, evaluation circuits, etc.

The sensor technology COM3LAB course builds upon this with emphasis on the measurement of non-electric variables. Graphics, animations and quizzes liven up the theory section. Real experiments and especially hands-on experience with real sensors and evaluation circuits are central to this multimedia set. The sensor technology course is very compact and despite the wealth of experiments is still very compact.

Experiments are operated and evaluated with COM3LAB CBT.