E6.1.3
COM3LAB MULTIMEDIA:
MEASUREMENT TECHNOLOGY & SENSORS

E6.1.3.1
Basics of Electrical Engineering

E6.1.3.2
Operational amplifier

E6.1.3.3
Instrumentation &
Sensor Technology

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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.