Item No.: CO4204-6C

Course - Digital electronics 2: Sequential circuits

Includes:

- 1 Experiment card with NAND, NOR gates and flip-flops for building sequential circuits
- 1 Experiment card with synchronous binary counter, configurable as up or down counter
- CD-ROM with Labsoft browser and course software

Course contents:

- Introduction to the design and function of various flip-flops and registers
- Investigating the function of various flip-flops and registers by measurement
- Design and construction of counters and testing with real circuits
- Design and construction of shift registers with serial and parallel outputs and testing with real circuits
- Introduction to the design and function of counters and dividers
- Analysis of counters and dividers by measurement
- Measurements on synchronous and asynchronous counters
- Introduction to the difference between synchronous and asynchronous counters
- Design and investigation of binary-coded up and down counters
- Fault simulation (2 simulated faults activated by relay)
- Course duration 7 h approx. (fault finding 0.5 h approx.)