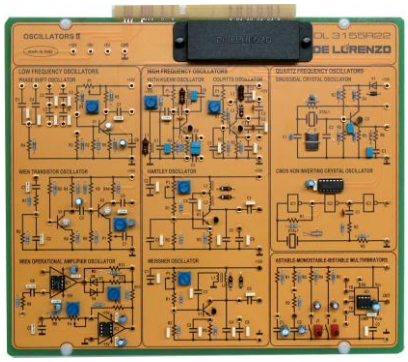
# TIME ELECTRONIC BOARDS

## OSCILLATORS



**DL 3155R22**

**Theoretical topics:**

- Characteristics of RC-phase shift oscillator
- Characteristics of Wien bridge oscillator with BJT transistor
- Characteristics of Wien bridge oscillator with Operational amplifier
- Characteristics of Huth-Kuehn oscillator
- Characteristics of Colpitts oscillator
- Characteristics of Hartley oscillator
- Characteristics of Meissner oscillator
- Characteristics of Crystal oscillator
- Characteristics of non-inverting crystal oscillator
- Characteristics of astable, monostable and bistable multivibrators with IC 555
- Fault simulation

**Circuit blocks:**

- Low frequency oscillators:
  Phase shift oscillator
  Wien transistor oscillator
  Wien OA oscillator
- High frequency oscillators:
  Huth-Kuehn oscillator
  Colpitts oscillator
  Hartley oscillator
  Meissner oscillator
- Quartz frequency oscillators:
  Sinusoidal crystal oscillator
  CMOS non inverting crystal oscillator
- Astable – Monostable – Bistable multivibrators

Note: this board is not provided with CAI software