LAB ENGINEERING

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Product Name :	**Product Code :**
Analogue Signal Processing	ETLE0001

Description :

Analogue Signal Processing

Technical Specification :

Analogue Signal Processing

The design and construction of electronic circuits to solve practical problems is an essential technique in the fields of electronic engineering and computer engineering. With this board the students can study the operating principle of analog communication systems and analog signal processing techniques such as multiplication, division, square root, power, logarithm, antilogarithm, attenuation, amplitude modulation and demodulation, non? inverting adder, difference amplifier, integrator and shunt.

Theoretical Topics of **Analogue Signal Processing**

1. Familiarization with analogue computing technique
2. Basic and advanced linear operations
3. Simultaneous multiplication and division
4. Analog computation of powers and roots
5. Log ratio computation
6. Antilog computation
7. Square root operation
8. Attenuator overview
9. Characteristics and key specifications for fixed and step attenuators
10. Audio attenuators
11. Forms of amplitude modulation
12. Amplitude modulation and demodulation methods

Circuit Blocks of **Analogue Signal Processing**

1. Reference power supply unit
2. RealTime Analog computational unit
3. One?quadrant multiplication unit
4. Root circuit
5. Power circuit
6. Log ratio operation with thermic compensation
7. Antilog operation with thermic compensation
8. Attenuator
9. Amplitude modulation and demodulation
10. Non inverting summing block
11. Difference amplifier
12. Integrator

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