TI DSP, MCU, Xilinx Zynq FPGA 프로그래밍 전문가 과정

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$$f(x) = \frac{1}{2}a_0 + \sum_{x=1}^{\infty} \left(a_n \cos \left(\frac{nx}{T} x \right) + b_n \sin \left(\frac{nx}{T} x \right) \right)$$

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$$\int_{T}^{T} f(x) dx = \int_{T}^{T} \frac{1}{L^2} dx dx + \sum_{x=1}^{\infty} \left(a_n \int_{T}^{T} \cos \left(\frac{nx}{T} x \right) dx + b_n \int_{T}^{T} \sin \left(\frac{nx}{T} x \right) dx \right)$$

$$= a_0 + \frac{1}{L^2} \int_{T}^{T} f(x) dx$$

$$f(x) \cos \left(\frac{nx}{T} x \right) = \frac{1}{L^2} a_0 \cos \left(\frac{nx}{T} x \right) + \sum_{n=1}^{\infty} \left[a_n \left[\cos \left(\frac{nx}{T} x \right) \right]^{\frac{1}{2}} + b_n \sin \left(\frac{nx}{T} x \right) \cos \left(\frac{nx}{T} x \right) \right]$$

$$\int_{T}^{T} f(x) \cos \left(\frac{nx}{T} x \right) dx = \frac{1}{L^2} a_0 \int_{T}^{T} \left[\cos \left(\frac{nx}{T} x \right) \right] dx + b_n \int_{T}^{T} \sin \left(\frac{nx}{T} x \right) \cos \left(\frac{nx}{T} x \right) dx$$

$$= 0 + a_0 \int_{T}^{T} \left[\cos \left(\frac{nx}{T} x \right) \right] dx + 0$$

$$= 1 + a_0 \int_{T}^{T} \frac{1}{L^2} \cos \left(\frac{nx}{T} x \right) dx + 0$$

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