Solution to VTU Question Bank

MODULE-I Fourier Series

1. Obtain the Fourier expansion of

$$f(x) = \begin{cases} x, & 0 \le x \le \pi \\ 2\pi - x, & \pi \le x \le 2\pi \end{cases}$$

Deduce that
$$\frac{\pi^2}{8} = 1 + \frac{1}{3^2} + \frac{1}{5^2} + \dots$$

(June 2014)

since f(x)cosnx is even.

$$a_0 = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) dx = \frac{2}{\pi} \int_{0}^{\pi} f(x) dx$$

$$= \frac{2}{\pi} \int_{0}^{\pi} x dx = \pi$$

$$a_{x} = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) \cos nx dx = \frac{2}{\pi} \int_{0}^{\pi} f(x) \cos nx dx$$

$$= \frac{2}{\pi} \int_{0}^{\pi} x \cos nx dx$$

$$\begin{aligned} &\frac{2}{\pi} \left[x \left(\frac{\sin nx}{n} \right) - 1 \left(\frac{-\cos nx}{n^2} \right) \right]_0^x \\ &= \frac{2}{n^2 \pi} \left[(-1)^n - 1 \right] \end{aligned}$$

$$b_x = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) \sin nx dx = 0$$
, since $f(x) \sin nx$ is odd

Thus the Fourier series of f(x) is

$$f(x) = \frac{\pi}{2} + \frac{2}{\pi} \sum_{n=1}^{\infty} \frac{1}{n^2} [(-1)^n - 1] \cos nx$$

For x=x , we get

Vtu Engineering Mathematics Question Papers

M Mark

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