

**Third Semester B.E. Degree Examination**  
**Fourier Transform, Numerical Methods and Linear Algebra**  
**(Common to CSE, ISE & AIML)**

**Model Paper-1**

Time: 3 Hrs

Max. Marks: 100

*Note : Answer FIVE full questions, choosing ONE full question from each module*

Q. No.	Questions	Marks	CO	BL	PO
<b>Module 1</b>					
1a	Obtain the Fourier series of $f(x) = x^2$ over $(-\pi, \pi)$ .	7	1	3	1, 2
1b	If $f(x) = \begin{cases} 1 - x^2 & \text{for }  x  \leq 1 \\ 0 & \text{for }  x  > 1 \end{cases}$ , find the Fourier transform of $f(x)$ and $f(x - 9)$ .	7	1	3	1, 2
1c	Write the Fast Fourier transform for $N = 4$ values.	6	1	3	1, 2
<b>(OR)</b>					
2a	Obtain the Fourier series of $f(x) = \begin{cases} 2, & -2 \leq x \leq 0 \\ x, & 0 < x \leq 2 \end{cases}$	7	1	3	1, 2
2b	Find the Fourier transform of $f(x)$ , and $f(x)\cos x$ where $f(x) = e^{- x }$ .	7	1	3	1, 2
2c	Using FFT find transform of the sequence of $f = [-2, -2, 2, 2]^T$ .	6	1	3	1, 2
<b>Module 2</b>					
3a	Using Taylor's series method find an approximate solution of the given initial value problem $\frac{dy}{dx} = x - y^2$ , $y(0) = 0$ . Find $y(0.1)$ up to fourth degree terms	7	2	3	1, 2
3b	Using Runge kutta method of order 4, compute $y(0.2)$ given  $\frac{dy}{dx} = \frac{y^2 - x^2}{y^2 + x^2}$ , $y(0) = 1$ by taking $h = 0.2$	7	2	3	1, 2

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