Mahatma Gandhi Mission's College of Engineering and Technology
Kamothe,Navi Mumbai

**Branch: FE (ALL)** **Academic Year: 2020-2021**

**Course Code: FEC 201** **Course Name: Engineering Mathematics II [Choice Based]**

## Tutorial 4

| Ques. No. | Question | Module | Level * | PI | CO |
|---|---|---|---|---|---|
| 1 | Solve $(D^2 + D)y = e^{4x}$ | 2 | 2 | 1.1.1 | 1 |
| 2 | Solve $(D^3 - 4D)y = 2\,coshx\,cosh\,2x$ | 2 | 3 | 1.1.1 | 1 |
| 3 | Solve$(D-1)^2(D^2+1)y = e^x + sin^2(\frac{x}{2})$. | 2 | 4 | 1.1.1 | 1 |
| 4 | Solve: $\frac{d^2y}{dx^2} - 4\frac{dy}{dx} + 4y = x^2 + e^x + cos2x$ | 2 | 4 | 1.1.1 | 1 |
| 5 | Solve $\frac{d^2y}{dx^2} - y = x.sin\,3x$ | 2 | 3 | 1.1.1 | 1 |
| 6 | Apply method of variation of parameters to solve $(D^3 - 6D^2 + 12D - 8)Y = \frac{e^{2x}}{x}$ | 2 | 1 | 1.1.1 | 1 |

***As per Bloom's Taxonomy**