Name of Faculty: Deepak Agrawal

Department: Basic Science

Subject: Engg Math-2 (BT-202)

Unit: 1 (Ordinary Differential Equation1)

YouTube Link

Topic 1: Higher order differential equation with constant coefficient (Method of CF)

Link 1: https://www.youtube.com/watch?v=IVL2KPKy7lA&t=5s

Topic 2: Numerical solution of CF for higher order differential equation with constant coefficient

Link 2: https://www.youtube.com/watch?v=l8vv55kxuCQ

Topic 3:Method of PI case no 1, for higher order differential equation with constant coefficient

Link 3: https://www.youtube.com/watch?v=8gLjNuYvbcs

Topic 4: Numerical by using case no 1 of PI, for higher order differential equation with constant coefficient

Link 4: https://www.youtube.com/watch?v=Yby630aZ0OE&t=43s

Topic 5: Numerical by using case no 2 of PI, for higher order differential equation with constant coefficient

Link 5: https://www.youtube.com/watch?v=blMbhQbCPf4

Topic 6: Numerical by using case no 3 of PI, for higher order differential equation with constant coefficient

Link 6: https://www.youtube.com/watch?v=PvmOA6McmEI

Topic 7: Method of PI case no 4,

Link 7: https://www.youtube.com/watch?v=8ir2eFShc1s

Topic 8: Numerical by using case no 4 of PI, for higher order differential equation with constant coefficient

Link 8: https://www.youtube.com/watch?v=TJ5aQs8dTE4

Topic 9: Method of PI Case no 5

Link 9: https://www.youtube.com/watch?v=kwOjyoxJ6YI

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Topic 10: Method of PI case no 6

Link 10: https://www.youtube.com/watch?v=VL8hfsYMQhY

Topic 11: Numerical by using case no 6 of PI, for higher order differential equation with constant coefficient

Link 11: https://www.youtube.com/watch?v=PBgkM3U7LX8

Topic 12: Method of PI case no 7

Link 12: https://www.youtube.com/watch?v=scXFIzPAj_c

Topic 13: Numerical by using case no 7 of PI, for higher order differential equation with constant coefficient

Link 13: https://www.youtube.com/watch?v=h6kpMeSj_Tw

Topic 14: Numerical by using case no 8 of PI, for higher order differential equation with constant coefficient

Link 14: https://www.youtube.com/watch?v=rkS4KCYRoYQ

Topic 15: Numerical by using Simultaneous differential equations

Link 15: https://www.youtube.com/watch?v=pfyNcinXwIk&t=159s