



COLLEGE OF ENGINEERING & TECHNOLOGY

MECHANICAL ENGINEERING DEPARTMENT

B.E. 3rd SEMESTER

SUBJECT: CVPDE

SUBJECT CODE: 3130005

Sr.No.	Topic	Link	By
1	Introduction to Complex Numbers	https://youtu.be/gFjIBKW8aZU	NPTEL
2	Analytic Function Cauchy Riemann Equation	https://youtu.be/t9xW7UaZwZ0	Dr.Gajendra Purohit
3	Harmonic Conjugate	https://youtu.be/OOQqbV32b78	Dr.Gajendra Purohit
4	Analytic Function Milne Thomson Method	https://youtu.be/ABNW9FcZ5zQ	Dr.Gajendra Purohit
5	Bilinear transformation Conformal Mappings	https://youtu.be/xgnQTqMc6A4	Dr.Gajendra Purohit
6	Complex Integration Line Integral	https://youtu.be/ywQVarOaA60	Dr.Gajendra Purohit
7	Cauchy's Integral Formula	https://youtu.be/fSoQxuVdKIs	Dr.Gajendra Purohit
8	Taylor Series For Complex Variable	https://youtu.be/xls_5Ly7VA4	Dr.Gajendra Purohit
9	Laurent Series For Complex Number	https://youtu.be/gUmIrJRXDSs	Dr.Gajendra Purohit
10	Cauchy's Residue Theorem	https://youtu.be/4yC4IXcMKJg	Dr.Gajendra Purohit
11	Partial Differential Equations	https://youtu.be/N7qVGiOafIs	Dr.Vikas Goyal
12	Lagrange's Linear Partial Differential Equation	https://youtu.be/wv2qer6paYc	Dr.Vikas Goyal
13	Lagrange's Linear Partial Differential Equation	https://youtu.be/IYeryBAoDXA	Dr.Vikas Goyal

14	Lagrange's Linear Partial Differential Equation	https://youtu.be/YWYoNPXs8Ms	Dr. Vikas Goyal
15	Lagrange's Linear Partial Differential Equation	https://youtu.be/7of78Bn1EI0	Dr. Vikas Goyal
16	Lagrange's Linear Partial Differential Equation	https://youtu.be/7oDeozTsCV8	Dr. Vikas Goyal
17	Non Linear Partial Differential Equation of First Order Form-1	https://youtu.be/IJtUzdN_tOE	Dr. Vikas Goyal
18	Non Linear Partial Differential Eq. Form-2	https://youtu.be/mF5LJvob_4I	Dr. Vikas Goyal
19	Non Linear Partial Differential Eq. Form-2	https://youtu.be/FzgRMHsvFyE	Dr. Vikas Goyal
20	Non Linear Partial Differential Eq. Form-3	https://youtu.be/tfsAkwwqkCXQ	Dr. Vikas Goyal
21	Non Linear Partial Differential Eq. Form-3	https://youtu.be/ersmBpnFG08	Dr. Vikas Goyal
22	Non Linear Partial Differential Eq. Form-4	https://youtu.be/U8ofS-tcuVI	Dr. Vikas Goyal
23	Charpit's Method	https://youtu.be/eNy3awbBhJk	Dr. Vikas Goyal
24	Charpit's Method	https://youtu.be/53mgSC2Yf5Q	Dr. Vikas Goyal
25	Homogeneous Linear PDE with constant coefficient	https://youtu.be/XB0Ty2aAWNk	Bhagwan Singh Vishwakarma
26	Solution of Non-Homogeneous Linear PDE	https://youtu.be/_Fq7Vjf0O7Q	Bhagwan Singh Vishwakarma
27	Solution by Separation of Variables	https://youtu.be/BcwMJ-8-cvk	Bhagwan Singh Vishwakarma
28	Solution of One Dimensional Wave Equation	https://youtu.be/Do_q2ErNAoQ	Bhagwan Singh Vishwakarma
29	Solution of one dimensional heat flow Equation	https://youtu.be/5AiGSzZ1QqU	Bhagwan Singh Vishwakarma