

Balasaheb Desai College Patan

I.Q.A.C.

E- Content and E- Resources

Dr. D. R. Phadatare

Sr. No.	Name of teacher	Department	Class	Paper No. and Title of paper	Title of unit/Content of U tube	You tube Link/ Google Class Room Link.
1	Dr. D. R. Phadatare	Mathematics	B. Sc. I	Paper IV Partial differential Equations	Partial Differential Equations: Introduction order, degree	https://youtu.be/dCW5aDgqlrc
2					Formation of PDE by elimination of arbitrary constants	https://youtu.be/XOK7h4dvDBg
3					Examples on formation of PDE by elimination of arbitrary constants	https://youtu.be/hZHpivyfKQI
4					Derivation of formation of PDE by elimination of arbitrary function	https://youtu.be/fYvYBA84nKc
5					Examples on formation of PDE by elimination of arbitrary function	https://youtu.be/YULG8hNS5HE
6					Lagranges Linear equation	https://youtu.be/H6vzgrc_eGo
7					Examples on Lagranges linear equation	https://youtu.be/nA0wqlnopGM

8				Paper III Differential Equations	Linear Differential Equations With Constant Coefficients Def, Case I : To find solution of $f(D)y=0$ when the roots are real & distinct	https://youtu.be/iTytaZIVlgQ
9					Examples on above Case I	https://youtu.be/QjIET8yKUWc
10					Case II: To find solution of $f(D)y=0$ when the roots are repeated	https://youtu.be/BYk_F6-IPW4
11					Examples on above Case II	https://youtu.be/g2GM2aXMghU
12					Case III: To find solution of $f(D)y=0$ when the roots are imaginary & distinct , repeated & examples	https://youtu.be/ixqS1fHrjMY
13					Inverse operator $1/f(D)$, P. I Case I to find P. I when $X=e^{ax}$	https://youtu.be/aluGc-Xk7FQ
14					P. I.: Examples on case I &	https://youtu.be/sQXc5zKDYC8
15					Examples on case I & Case II to find P. I. When $X=\sin ax$ or $\cos ax$	https://youtu.be/t9TNXChK-JM
16					Examples on Case II	https://youtu.be/t3V3j9Xl36k
17					Case III: When $X=x^m$ and examples on same case	https://youtu.be/ODSCOTS9kA0
18					Examples on Case I, II, III and theory of Case IV to	https://youtu.be/HDXi4NpCGvc

					find P. I.	
19					Examples on Case IV	https://youtu.be/PoZhFiPU33s
20					Case V: When $X = x \sin ax$ or $x \cos ax$	https://youtu.be/Cls8b33VSeQ
21					Examples on Case V	https://youtu.be/LR6OayzsIJo
22			B. Sc. II	Real Analysis II Infinite series	Introduction, definition, convergence of series	https://youtu.be/qtN80RKQ4tg
23					Cauchy's general principle of convergence	https://youtu.be/ZPzyGbOm6g4
24					Series of Positive terms, Geometric series & examples	https://youtu.be/2MuYeUn12LY
25					P-series and examples	https://youtu.be/CPcQSvGPDMo
26					Comparison test of first and second kind ,limit form of test & examples	https://youtu.be/E8RK95419bI
27					Examples on Comparison test and Cauchy's root test	https://youtu.be/iC46sqBVvJk
28					D Alemberts Ratio test and examples	https://youtu.be/DncmPoUxR_A
29			B. Sc. II & B. C. A. I, II	Real Analysis I Countable sets and functions	Introduction, revision of sets, methods for specifying sets	https://youtu.be/UcqLV5M8Tqw
30					Types of sets: Definitions & examples	https://youtu.be/wybdU32SuBU
31					Operations on sets and	https://youtu.be/B8Db6j5vtmA

					examples	
32					Properties of sets and examples	https://youtu.be/rTmxlQuL6g8
33					Laws related to sets and examples	https://youtu.be/jyQFrQNCOv0
34					Cartesian product, Relation its domain range and examples	https://youtu.be/edtxyMVo278