

Lecture 0: Intro (Milon)

https://zoom.us/rec/share/OPczTJGNb-ZDH0lpcUsPmsON3s26hBGGD7GAKEovJh7txd9uXUOHmXNux7C_qaiG.x6VI0T8TUMuNv9F2 Passcode: mSZ5^wZw

Lecture 1 Metric spaces and Basic definitions (Achinta)

https://zoom.us/rec/share/Vmq2mVLmdpiK0SUy7jdx6PqaM9bGYu5xpTK6-FaXZ4-oiE0oE_-kSYwEYP-38TmV.o3rUBtjr7-UlgCT4 Passcode: 8uxJW&Tq

L3: Complex number vs Its Extension to Quaternion (Milon)

https://zoom.us/rec/share/IY3vh7si_DlleXWB9yzM_ZrMnnj78ZIMXGjmWm9HkbniliM0c7AdAb7aJh8VDnjC.U0C128xhmbBpAWh1 Passcode: Ta0+c#DW

L 4: A bit of Topology (Achinta)

https://zoom.us/rec/share/RDVfNTh383eiRTPkxgyT1NnjDUMnfXq0mKjNbZWMdWEU9RBpO1sexJPISjJ3QIGm.egM_slxQfAXfDbVw Passcode: &l.6*@6?

L 5: Chapter 0 (Ullrich)(Achinta)

<https://zoom.us/rec/share/CKCAK9-W9tV6t8h-LR8Jd2DvRLBUsmLDAEi-F6uo0i31p7YJyvYDysekgzOjdkI.Z44PPQlqkwKI3V1Q> Passcode: 9d#bA9KV

L 6: Power Series 1 (Milon)

https://zoom.us/rec/share/vnz8YNee6PGB8GYKokHaltRMQK6ncRZeMalp5PJSfMLAJL23F6muO3rn6eL_GmA.9dlroq7M2XkLrOeX Passcode: @9jljL+6

L 7: Intro to Integration (Milon)

https://zoom.us/rec/share/aWhpV9pm3Eh0Vld7GxACxJ8FUeZcfWJwiUW7tKH6uRm_qDT-dfaUHDWFbklWYWeX.LxQUIzCYXI9i4Xln Passcode: m6Zgm%G\$

L 8: Naive Homology (Milon)

Warning: This is a four-hour-long lecture. This has one of the most beautiful ideas of topology. You will either love it or hate it.

<https://zoom.us/rec/share/DdnL7OEmp2eeMTVXQcCnZTAI-CTWh6k1gg9wedtETApELj8ROHw7sixD0gwTZDev.L1JK62-FbhJugu7z> Passcode: FUX91H?h

L 8 (The Big Theorem) Read the proof from the notes. Please ask me if you don't understand a single thing in the proof.

https://zoom.us/rec/share/wocBlxEJyH8WW462CtZ2Qv5AspYOVhpce5QZTmHpiCuA5XoKC75Ct79z5YJyi1_6.mHwf-vCPDfVLBZ7i Passcode: 70^rW%KY

L 9 Goursat's Theorem from the scratch

https://zoom.us/rec/share/BR3L_I4cSibbYi4FOhI7XPISBRbQEimf8mmzzEy6GuHxXuX-jCh-mkk9L3gaBHV4.4Y5j6xXkM8l-IFFi Passcode: GB7L=2v=

L 10 (Achinta) Cauchy Integral Formula

<https://zoom.us/rec/share/QyMiwTWApadzcdxm1jn-h9D6KPsj6GYjk-p11V1l-c8kfT1MmzkSjbb3xTc9CeBS.FZYnNBbJe9VxFkxR> Passcode: WjUA!9!8

L 11: Some consequences of Cauchy Integral Formula (Milon). This lecture is important for the exam :p This lecture contains the following:

1. A proof of equivalence between holomorphicity and analyticity
2. Cauchy Estimates
3. Liouville's theorem
4. A proof of FTA
5. A consequence/application of the first result

Copy the link below to share this recording with viewers:

<https://zoom.us/rec/share/czEUm2VFHjmYzLCrZxqOkyWG-NVSSMCvvaZKXyROimBUAxaqTEKCuAAeiL1Rmr8OL.A-bebpNYQMCPNPdH> Passcode: k3zqx&.R

L 12: More consequence of holomorphicity/analyticity

L 13: Problem-solving

<https://zoom.us/rec/share/GBi6wARr4YrGXqhL1MsP-BdvA0yAwUMsDxpHHx5-rxrFg8YnryQhUhl9RdWenH6K.hvtglryBWNbVYbXE> Passcode: KKPUr4F^

Two more lectures: Lecture 14 (Achinta) and 12 (Milon)

https://drive.google.com/drive/folders/1ACRfN7H4-Km_3KbstJzB78bWbfOUzVyp?usp=sharing

Lecture 15 (Milon) Chapter 5 (part 1)

<https://zoom.us/rec/share/Uq0xHUgXVARqdu7ERoXLnXXPo4lQdx7cvYZgvlwaY8ECK9NFONDiyOtjche6i287.NlrMjzsfiszrpa6> Passcode: Y1l\$887t

Lecture 16 (Milon) Chapter 5 (Part 2) The Open Mapping Theorem

https://zoom.us/rec/share/VWfqq0M18ZvCR1fbG6wx-9KKaYL_yQBQuk9l1DAfKM7p8uuaDmHsf5zWNfTB6_a0.pLPEc3831NHjJHVM Passcode: \$c2JuR2c

Lecture 17(Achinta) Baby Residue Theorem and some random stuff

https://zoom.us/rec/share/_t1UYghdEVs-ADf87IR5vTCVJz2LNNcsGBIkmbGlzQXj1lGujQyn6i1J3hWr7SH.4uvvX1vmFjUa3T4 Passcode: #5Wc0w=R