

AUGUST

12

Tuesday

IMA 301

FUNCTIONAL ANALYSIS

4.8.2020

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6	7	8	9	10	11	12
13	14	15	16	17	18	19
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JULY 2014

9 TAUGHT BY

10 • prof. laxmi borra

11

COURSE TOPICS

12

• introduction to analysis

1

- some elementary concepts

2

- metric spaces

3

- open set

- closed set

5

- neighborhood

6

- convergence

- cauchy sequence

• linear spaces and linear bounded operators

• normed linear spaces & inner product spaces

• banach spaces

2014

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22	23	24	25	26	27	28
29	30					
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4.8.2020

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Wednesday

WK 33 • 225-140

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• hilbert spaces

• adjoint, normal, unitary operators

• projections

• fixed point theory: some applications

TEXTBOOKS

1. introductory functional analysis with applications.
(2001)

2. a guide to functional analysis ; krantz

3. real and functional analysis ; lang

4. a course in functional analysis ; conway