

2018

JULY

Week 31

212-153

CSE 505

STRUCTURAL DYNAMICS

Tuesday

31

9 TAUGHT BY

10 • prof. sunitha P

11 COURSE TOPICS

- 12
- 1 • introduction to structural dynamics
 - 2 • free vibration, single degree of freedom, systems
 - 3 • forced vibrations
 - 4 • response to step function
 - 5 • numerical evaluation of dynamic response
 - 6 • concept of response spectrum
 - 7 • concept of design spectrum
 - generalized single degree of freedom
 - multi degree of freedom systems
 - approximate methods for finding natural frequency.
 - dynamics of rigid blocks

AUG
2018S M T W T F S
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5 6 7 8 9 10 11S M T W T F S
12 13 14 15 16 17 18S M T W T F S
19 20 21 22 23 24 25S M T W T F S
26 27 28 29 30 31 •

AUGUST

AUGUST

01

Wednesday

2018

Week 31

213-152

• control of vibration

• introduction to random vibrations

11 TEXTBOOKS

1. dynamics of structures; chopra.

2. Structural dynamics; clough.

3. theory of vibration; thomson.

4. elements of vibration analysis; meirovitch.

5. structural dynamics; mukhopadhyay.