

2018

4.8.2020

JUNE

22

Week 25

173-102

CES635

STRUCTURAL WIND ENGINEERING Friday

9 TAUGHT BY

10 • prof. Shaik rehana

11

COURSE TOPICS

12

1 • wind climate, nature, and types of high winds and storms

2 • wind damages, damage index, wind impact on structures.

3

4 • estimation of design wind speed and pressure distribution.

5 • estimation of wind loads on buildings, factors affecting wind load.

6

7 • prediction of design wind speed and structural safety.

• estimation of extreme wind speeds

• atmospheric boundary layer and wind turbulence:
e: mean wind speed profiles, wind spectra, topographic multipliers.

JULY

AUGUST

JUL	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S							
2018	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	*	*	*	*

JUNE

4.8.2020

2 2018

23

Saturday

Week 25

174-191

- structural interaction with aerodynamic forces, pressure, lift, drag, and moment effect on structures.

- wind loads, codes, and standards.

TEXTBOOKS

1. advanced structural wind engineering; tamura. (2013)
2. wind loading of structures; holmes. (2003).

24 Sunday