MTH 202: PROBABILITY AND STATISTICS SEMESTER 2, 2015-2016

Course Structure

4/1:	Introduction and Section 1.1 of [HPS]	
6/1:	Section 1.2	
7/1:	Section 1.3	
·		(End of Week 1)
19/1.	Section 1.4	
13/1; 14/1;	Section 1.4	
14/1:	Section 1.5, 2.1	
		(End of Week 2)
18/1:	Section 2.3, 2.4, 2.5	
20/1:	2.6, 3.1 (until Example 2)	
21/1:	3.1 (excluding Example 9)	
/		(End of Week 3)
05 /1		(Lind of Week 3)
25/1:	3.1 (Example 9 using $3.4.2$), 3.2 , 3.3 (only definition)	
27/1:	3.3 (including 3.4.1), 3.4	
28/1:	3.6	
		(End of Week 4)
1/2:	4.1, 4.2 (until statement of Theorem 1,2)	
3'/2:	4.2	
4/2:	4.3. 4.4 (excluding Example 12)	
/		(Fnd of Wook 5)
0.40		(Lind of Week 5)
8/2:	4.4, 4.6	
10/2:	4.6, 5.1	
11/2:	5.1	
		(End of Week 6)
15/2:	5.1, 5.2 (until Example 5)	
17/2:	5.2. 5.3	
18/2:	5.3.1. 5.3.2	
/		(Fnd of Wook 7)
00/0		(Lind of Week 1)
22/2:	5.3.3, 5.4	
24/2:		
25/2:	6.1, 6.2.1 (until Theorem 1)	
		(End of Week 8)
09/3:	6.2.2	
$10^{\prime}/3$:	6.3, 6.4	
/	,	(End of Week 9)
14/9		(Lind of Week b)
14/3:		
16/3:	7.3 (including some of 6.5)	
17/3:	7.5, 7.5.1	
18/3:	7.5.2	
		(End of Week 10)
30/3:	8.2	
31/3:	8.3	
/		

(End of Week 11)

(End of Week 12)

(End of Week 13)

18/4: 5.10.1, 5.10.2 (excluding Example 3)21/4: Review22/4: Review

4/4: 8.3, 8.4 6/4: 8.4

7/4: 4.1-4.5 in [H]

11/4: 4.6.1, 8.2.1 13/4: 8.2.3

(End of Week 14)

INSTRUCTOR NOTES

- (1) I chose to follow the textbook [HPS] closely as it is an excellent textbook, and this paid off. I believe the students understood the probability part well, and it allowed me to prove both the weak law of large numbers and the central limit theorem (albeit with only a cursory glance towards fourier analysis). The rest of the course was example driven.
- (2) Overall, the course is sound, but the number of topics on the syllabus should be cut down to a reasonable amount the focus needs to be on probability and the two theorems mentioned above. Anything else is extraneous.
- (3) Furthermore, the course suffers from a serious lack of interest from the students, perhaps because most of them have decided on a major and choose to ignore subjects they plan to drop. Thus, the attendance dropped to less than half after the mid-sem exam and never recovered.

References

[HPS] Hoel, Port, Stone, Introduction to Probability Theory, 1st Edition, Brooks Cole, 1972
[H] Hoel, Introduction to Mathematical Statistics, 5th Edition, Wiley, 1962