1. Basic Concepts
   Lecture 1: Section 1.3
   Lecture 2: Section 1.4 – 1.6

2. Materials and Systems for Prestressing
   Lecture 3: Section 2.3.2, 2.4
   Lecture 4: Section 2.5 – 2.7
   Lecture 5: Section 2.5 – 2.7
   Lecture 6: Section 2.10.1 – 2.10.3

3. Partial Loss of Prestress
   Lecture 7: Section 3.2 – 3.4
   Lecture 8: Section 3.5 – 3.7
   Lecture 9: Section 3.8 – 3.10

4. Flexural Design of Prestressed Concrete Elements
   Lecture 10: Section 4.2
   Lecture 11: Section 4.3
   Lecture 12: Section 4.4
   Lecture 13: Section 4.4
   Lecture 14: Section 4.5.1 – 4.5.2
   Lecture 15: Section 4.5.3 – 4.5.4
   Lecture 16: Section 4.6.1 – 4.6.3
   Lecture 17: Section 4.8
   Lecture 18: Exam 1
   Lecture 19: Section 4.9
   Lecture 20: Section 4.9
   Lecture 21: Section 4.12
   Lecture 22: Section 4.14 – 4.15
   Lecture 23: Section 4.16

5. Shear and torsional Strength Design
   Lecture 24: Section 5.5
   Lecture 25: Section 5.7
   Lecture 26: Section 5.8 – 5.11
   Lecture 27: Section 5.12 – 5.14
   Lecture 28: Section 5.16, 5.17.1 – 5.17.5
   Lecture 29: Section 5.16, 5.17.1 – 5.17.5
   Lecture 30: Exam 2
6. **Indeterminate Prestressed Concrete Structures**
   - Lecture 31: Section 6.4
   - Lecture 32: Section 6.5
   - Lecture 33: Section 6.6
   - Lecture 34: Section 6.7
   - Lecture 35: Section 6.9
   - Lecture 36: Section 6.12
   - Lecture 37: Section 6.12

7. **Camber, Deflection, and Crack Control**
   - Lecture 38: Section 7.4 – 7.5
   - Lecture 39: Section 7.7, 7.10

8. **Prestressed Compression and Tension Members**
   - Lecture 40: Section 8.4 – 8.5
   - Lecture 41: Section 8.6 – 8.8, 8.10
   - Lecture 42: Section 8.6 – 8.9, 8.10

9. **Two-Way Prestressed Concrete Floor Systems**
   - Lecture 43: Section 9.1 – 9.2
   - Lecture 44: Section 9.3 – 9.4

**Grading:**

Homework – 30%
Mid-term Exam – 40% (mid March)
Final Exam – 30%

**Attendance is Mandatory**