

M2795.006200

Advanced Theory of Helicopter

1. Professor: SangJoon Shin (Building 301, Room #1418. ssjoon@snu.ac.kr)
2. Lecture Date: Monday 2:00 PM ~ 3:15, Wednesday 2:00 PM ~ 3:15
3. Lecture Room: Building 301 Room #303
4. Office Hours: Monday 10:00 AM ~ 11:00 AM
5. Grade: Attendance (5%)
 - Test (Mid 25%, Final 35%)
 - Homework (35%)
6. Main Lecture Text: Lecture Note (Prof. I. Chopra)
7. References
 - Lecture Note (Prof. P. Friedmann)
 - Bielawa, R. L., "Rotary Wing Structural Dynamics and Aeroelasticity," AIAA Education Series, 1992
 - Johnson, W., "Helicopter Theory," Princeton University Press, 1980
 - Bramwell, A. R. S., Done, G. T. S., and Balmford, D., "Helicopter Dynamics," Butterworth-Heinemann, 2001
 - Seddon, J. and Newman, S., "Basic Helicopter Aerodynamics," AIAA Education Series, 2001
 - Stepniewski, W. Z. and Keys, C. N., "Rotary Wing Aerodynamics," Dover Publications, 1984
 - Prouty, R. W., "Helicopter Performance, Stability, and Control," PWS Publications, 1986
 - Gessow, A. and Myers, Jr., G. C., "Aerodynamics of the Helicopter," College Park Press, 1985

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	3/2 Lecture 1		3/4 Lecture 2		
Week 2	3/9 Lecture 3		3/11 Lecture 4		
Week 3	3/16 Lecture 5		3/18 Lecture 6		
Week 4	3/23 Lecture 7		3/25 Lecture 8		
Week 5	3/30 Lecture 9		4/1 Lecture 10		
Week 6	4/6 Lecture 11		4/8 Lecture 12		
Week 7	4/13 Lecture 13		4/15 Lecture 14		
Week 8	4/20 Lecture 15		4/22 Lecture 16		
Week 9	4/27 Lecture 17		4/29 <u>Mid Exam</u>		
Week 10	5/4 <u>No class</u>		5/6 <u>No class</u>		
Week 11	5/11 Lecture 18		5/13 Lecture 19		
Week 12	5/18 Lecture 20		5/20 Lecture 21		
Week 13	5/25 <u>Holiday</u>		5/27 Lecture 22		
Week 14	6/1 Lecture 23		6/3 Lecture 24		
Week 15	6/8 Lecture 25		6/10 <u>Final Exam</u>		
Week 16					