

1	Title	Introduction to Satellite Engineering	
2	Lecturer, Units	Mengu Cho	2
3	Purpose	The purpose of this lecture is to provide an overview of satellite engineering with its emphasis on micro- and nano-satellite technologies and systems engineering approach such as verification and test.	
4	Lecture schedule	<ol style="list-style-type: none"> 1. Introduction 2. Orbital Mechanics 3. Mission Analysis 4. Mission Analysis 5. Mission Analysis 6. Propulsion System 7. Prelaunch Environment and Spacecraft Structures 8. Spacecraft Dynamics and Attitude Control 9. Electrical Power Systems 10. Thermal Control 11. Telecommunications 12. Telecommunications 13. Command and Data Handling 14. Spacecraft Electromagnetic Compatibility 15. Small Satellite Engineering 	
5	Evaluation	Home works and discussion in the class	
6	Note	This lecture is provided in English. It is desirable for students to take Spacecraft Environmental Interaction Engineering as well.	
7	Textbook Reference	Textbook <ol style="list-style-type: none"> 1. Spacecraft Systems Engineering, edited by Peter Fortescue et al., Wiley Reference book <ol style="list-style-type: none"> 2. Space Mission Analysis and Design, Third Edition, edited by James Werts and Wiley Larson, Space Technology Library 3. Space Vehicle Design, second edition, Michael Griffin and Jame French, AIAA 	