











Introduction Summary of each Lecture (Part 1)				
Week	Date	Торіс	Short Description	
1	13.4.	Introduction	short summary of each lecture, Space Tourism Market Simulation, requests from audience for lectures	
2	20.4.	Ansari X Prize, SpaceShipOne and Wildfire	Lecture and Space Tourism Market Simulation	
3	27.4.	Space Tourism and Policy	Lecture and Space Tourism Market Simulation	
4	11.5.	Intermediate Student Presentations	(Grading)	
5	18.5.	Space Tourism in California	by Mr. Saotome, President of Space Tourism Society Japan, USA	
6	25.5.	Future Space Transportation Systems + Intermediate Student Presentations	by Mr. Hirokazu Suzuki, Senior Researcher, Future Space Transportation Research Center, JAXA, Tokyo, Japan + (Grading)	

Introduction				
Week	Date	Topic	Short Description	
7	1.6.	Space Tourism OPOLY	Guest Speaker: Mr. Tony Webb, founder of eSpaceTickets.com and eSpaceLotto.com, Wilmington, USA (Webcam broadcasting)	
8	8.6.	Present and Future Spaceports	by Mr. Iida, formerly Head of Kagoshima Space Center, now Advisor to the Executive Director of JAXA, Tokyo, Japan	
9	15.6.	Suborbital Rocket Plane + Intermediate Student Presentations	by Prof. Yoshiaki Ohkami, Kelo University, Yokohama, Japan + (Grading)	
10	22.6.	Space Adventures	Lecture and Space Tourism Market Simulation	
11	29.6.	The Universe and Space Tourism	Guest Speaker: Dr. Knud Jahnke, Astrophysical Institute Potsdam, Germany (Webcam broadcasting)	
12	6.7.	NASA and U.S. Industry: Space Tourism and Beyond	by Mr. A.C. Charania, Senior Futurist, SpaceWorks Engineering Inc., Atlanta, USA	
13	13.7.	Conclusion	Lecture and Space Tourism Market Simulation	

Definition Definition of Space Tourism (Version I)



No. 9

"Space tourism is the term broadly applied to the concept of paying customers traveling beyond Earth's atmosphere."

Example:

Dennis Tito can be seen as the first space tourist. His arrival at the International Space Station in April 2001 is shown in the figure.





Definition Definition of Space Tourism (Version II)



"Space tourism can be defined to include not only the vehicles that take public passengers into space, but also from the perspective of the "destination" paradigm. As such, the industry can be envisioned to include not only earthbased attractions that simulate the space experience such as space theme parks, space training camps, virtual reality facilities, multi-media interactive games and telerobotic moon rovers controlled from Earth, but also parabolic flights, vertical suborbital flights, orbital flights lasting up to 3 days, or week-long stays at a floating space hotel, including participatory educational, research and entertainment experiences as well as space sports competitions (i.e. space Olympics)." (Space Policy Institute, 2002)

Example:

Space camp at the Yuri Gagarin Cosmonaut Training Center at the Russian Star City. Training in a neutral buoyancy hydrolab for \$7000 is shown in the picture.



No. 11































Special: SpaceShipOne **Typical Launch Schedule**



7:00 am: White Knight takes off from Mojave spaceport, California with SpaceShipOne fixed underneath. No other planes are allowed to fly near the spaceport when this is happening. SpaceShipOne and White Knight can each carry three people, and the cockpits are identical for training purposes. For the ANSARI X PRIZE flights, there will be two people on board White Knight (1 pilot and 1 co-pilot), and one pilot on SpaceShipOne.





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Special: SpaceShipOne **Typical Launch Schedule**



8:03 am: SpaceShipOne is now over 7 times higher than White Knight - at this altitude, the air is so thin that the wings of SpaceShipOne can no longer provide any control, so the astronaut has to use jets of gas to steer the spacecraft. The astronaut will clearly see the darkness of space and the curvature of the earth through the window. He'll experience weightlessness for about 3-4 minutes and if he throws some M&M's about the cabin they will float in front of his face.





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Special: SpaceShipOne Typical Launch Schedule



8:30 am: Roughly 90 minutes after take-off, SpaceShipOne lands back on the same runway. It glides back down as it has no fuel left, so the pilot only has one chance to make a good landing.







