Course No.	M3309.0	00200	Lec. No.	001	Course Title	Reinfor	cement Lear	ning	Credits	3
Representative Instructor	Name	U Kang				Homepa	Homepage datalab.snu.ac.kr/~uk			kang
	E-mail	E-mail ukang@snu.ac.kr								
Prerequisite Course	- Machine Learning - Basic Statistics - Basic Algorithm									
* 1. Goals	Reinforcement learning (RL) is an area of machine learning concerned with how software agents ought to take actions in an environment so as to maximize some notion of cumulative reward. RL has been widely used for interesting AI applications including AlphaGo and backgammon. In this lecture, we will study important concepts in reinforcement learning including markov decision process, planning, prediction, policy gradient, exploration/exploitation, etc.									
* 2. Texts and References	- The textbook is "Reinforcement Learning" (2nd edition) by Sutton and Barto. It is also available at http://incompleteideas.net/book/the-book-2nd.html									
* 3. Evaluation	Attendan	ce Ta		idterm	Final	Random Evaluation	Attitude	Othe	ers	Total
	10 기타	3	80	30	30	0	0	0		100
* 4. Lecture Plan	(Remark) Week 1: Introduction to Reinforcement Learning Week 2: Markov Decision Processes Week 3: Planning by Dynamic Programming Week 4: Model-Free Prediction Week 5: Model-Free Ontrol Week 6: Value Function Approximation Week 7: Value Function Approximation Week 8: Policy Gradient Methods Week 9: Policy Gradient Methods Week 10: Integrating Learning and Planning Week 12: Exploration and Exploitation Week 13: Exploration and Exploitation Week 14: Case Study: RL in Classic Games Week 15: Case Study: RL in Classic Games									
5. Guideline for Students										