KOCW Content Development Application

		Faculty Depa	artment	Major		
Applicant	Name	Dr. Preethi Ananthachari	Position	Assistant Professor		
	Contact		E-mail			
	Subject	Artificial Intelligence				
	Credit	2 credits				
	Field	Liberal Arts () Social Science () Engineering (yes) Natural Science () Education () Medicine or Pharmaceutical Study () PE or Art ()				
Content	Outline of the Class	7. This course provides the students with a guide to developing applications using the Artificial Intelligence. It starts with the introduction to fundamental elements of learning and logical thinking. In addition, students will learn about searching, rational thinking, and the steps to train the AI system. Machine learning concepts will be introduced to implement simple classification techniques for business application. Hands-on practices figure prominently throughout this course so students can experience firsthand the power of artificial Intelligence.				
	Weeks	(10) Weeks (1 credit should be more than 15 minutes of a video each week for 10 weeks.)				
I submit this document for the KOCW Development Project.						
2021. 03 . 29 .						
Applicant :Preethi Ananthachari (Sign)						
Head of CTL, Woo-Song University						
* Contact · Tel 042-630-9396 9285 / WCTL@wsu.ac.kr						

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1. Outline

가. Name of a Class

Class Name	Artificial Intelligence				
Semester	Second semester of 2021	Division	Major (Y)	Liberal Art ()

나. Goal of a Class

(1) Goal of a Class: To provide comprehensive and indepth knowledge of AI. Understand the fundamental elements of Artificial Intelligence, terminology, and the steps required to create basic learning system. Identify business application that needs design and represent problems by presenting graph/data charts. Complete all learning activities by discussion, practical learning sessions.

(2) Introduction : Artificial Intelligence is an approach to make a machine think rationally. AI is a study of how human brain thinks when it encounters a problem, learns from experience, decides what is right and works on the correct direction, so finally it solves the problems. As a result this study outputs intelligent software systems. The aim of AI is to apply computer algorithms which are related to human knowledge, for example, logical reasoning, learning by experience, and problem-solving.

2. Weekly Plan

We	Contont/Tonic)	Learning Ohiostics	How to Operate		
ek	Content(Topic)	Learning Objective	Methodology	Material	Reference
1	Artificial Intelligence	Introduction	online / Video	PPT	
	Introduction	Basics of AI and history	onnine / video		
	Artificial Intelligent Agents	About the AI Program and	Online /	PPT	
2		Environments. Apply Search			
		Methods for Problem Solving.	Video		
3	Search	Acquire the understanding of	Online/ Video	PPT	
		the world. Use experience to			
		apply an action. Game			
		Playing.			
4	8 Queens Problem using back tracking	Well Formed Formulas,	Online /Video	PPT	
4		Inference Rules.	Online / Video		
5	Uncertainity	Bayes Theorem and its			
		applications.	Online /Video	PPT	
		Making Simple Decisions.			
6	Bayes Theorem	Acting Logically and practical	Online /Video	PPT	

		Planning.			
7 Plann	Planners and Planning	Learning from Observation,			
	5	prior knowledge, available	Online/ Video	PPT	
	Languages	feedback.			
8	Neural Networks	Machine Learning, How brain			
		works, Perceptron, Network	Online /Video	PPT	
		Structures.			
9	Agent that communicate	Agents that Communicate,	Online/ Video	PPT	
		Fundamentals of			
		Communication, Componenets			
		of Communication.			
10	Natural Language Processing	Practical applications, Machine	Online /Video	PPT	
		translation, Robotics.			

st You can freely complete the content sections based on the feature of the class.

3. How are you going to use your class?

For a credit class (), For a non-credit class (), For a public view (Y)

4. Expected Outcome:

Compare AI with human intelligence and traditional information processing and discuss its strengths and limitations as well as its application to complex and human-centred problems. Indepth understanding of the core concepts and algorithms of advanced AI, including informed searching, logic, uncertain knowledge and reasoning, graph models, decision making, multiagent, natural language processing, robotics, and so on. Apply and analyze the basic principles, models, and algorithms of AI to Identify, design, and solve problems in the analysis and model of information systems.