

Toyama College		Year	2022		Course Title	AI/MOT
Course Information						
Course Code		0088		Course Category	Specialized / Elective	
Class Format		Lecture		Credits	School Credit: 1	
Department		Department of Electronics and Computer Engineering		Student Grade	4th	
Term		Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials						
Instructor		Oguma Hiroshi,Aso Tsukasa,Takizawa Masaaki,Shinkai Junko,Mizumoto Iwao				
Course Objectives						
Students can understand the usefulness of data used in society based on actual examples from companies. Students can understand that mathematics, data science, and AI have the potential to create new value by combining them with knowledge from other fields.						
Rubric						
		Ideal Level		Standard Level		Unacceptable Level
Achievement 1 (Usefulness of data in society)		Students can fully understand the usefulness of data used in society.		Students can understand the usefulness of data used in society.		Students cannot understand the usefulness of data used in society.
Achievement 2 (Creation of new value)		Students can fully understand that mathematics, data science, and AI have the potential to create new value when combined with knowledge from other fields.		Students can understand that mathematics, data science, and AI have the potential to create new value when combined with knowledge from other fields.		Students cannot understand that mathematics, data science, and AI have the potential to create new value when combined with knowledge from other fields.
Assigned Department Objectives						
Teaching Method						
Outline		・ In the midst of social changes aimed at Society 5.0, students learn from actual examples of companies that data from a wide range of domains used in society is a useful tool for solving problems in daily life and society. ・ Through examples of data utilization in the corporate world, students will learn that mathematics, data science, and AI can create new value by combining knowledge from various application fields.				
Style		・ The class will be conducted mainly through lectures and exercises using actual examples. ・ Teams investigate and interview the guest companies, discuss the relationship between data and AI applications, and summarize the results in a report.				
Notice		・ All reports must be submitted by the due date for all topics. ・ In order to check the achievement of the objectives, the submitted reports may be questioned. ・ Evaluation of reports (how to write reports, organization and review of experimental results, due date, etc.) ・ Evaluation of the achievement of the achievement target (contents of the report, answers to the questions, etc.)				
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme		Goals	
2nd Semester r	3rd Quarter	1st	History and Technology of AI		Students can understand the history of the technology and its applications from the first AI boom to the third AI boom.	
		2nd	Examples of Management of Technology in Corporations 1		Students understand contents of lectures on AI-based technology management case studies by faculty with practical experience.	
		3rd	Report Writing		Teams discuss and write a report on Technology Management Case Study 1.	
		4th	Examples of Management of Technology in Corporations 2		Students receive a lecture from a guest company representative on examples of technology management using AI, can understand the contents of the lecture.	
		5th	Report Writing		Teams discuss and write a report on Technology Management Case Study 2.	
		6th	Examples of Management of Technology in Corporations 3		Students receive a lecture from a guest company representative on examples of technology management using AI, can understand the contents of the lecture.	
		7th	Report Writing		Teams discuss and write a report on Technology Management Case Study 3.	
		8th	Examples of Management of Technology in Corporations 4		Students receive a lecture from a guest company representative on examples of technology management using AI, can understand the contents of the lecture.	
	4th Quarter	9th	Report Writing		Teams discuss and write a report on Technology Management Case Study 4.	
		10th	Examples of Management of Technology in Corporations 5		Students receive a lecture from a guest company representative on examples of technology management using AI, can understand the contents of the lecture.	

		11th	Report Writing	Teams discuss and write a report on Technology Management Case Study 5.
		12th	Examples of Management of Technology in Corporations 6	Students receive a lecture from a guest company representative on examples of technology management using AI, can understand the contents of the lecture.
		13th	Report Writing	Teams discuss and write a report on Technology Management Case Study 6.
		14th	Creating Ideas Based on Data	In a team, referring to previous company case studies, attempt to create a new idea by connecting data from a wide range of areas used in society with various application areas, and express the content in writing.
		15th	Report Writing	Students discuss "Idea Creation Using Data" in teams and write a report.
		16th	Presentation	Students give a presentation on the ideas created by the team.

Evaluation Method and Weight (%)

	Report	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	80	20	0	0	0	0	100
Basic Proficiency	40	10	0	0	0	0	50
Specialized Proficiency	20	10	0	0	0	0	30
Cross Area Proficiency	20	0	0	0	0	0	20