Basic Course Information Course Number	02005113	Subject Category	Compulsory ICI	1
Class Format	Lecture	Credit Type and Number of Credits	1	
Department Period of Study	Computer Semester 2 Hardware: Laptop and Tablet, Ha	Student Category Classes per Week	Year 3 1	
Required Materials Instructor	Saung Hnin Pwint Oo	Yuki Yoshikawa	Su Wai Meo	1
Course Objective The course provides students with intro analysis and visualization of scientific da concepts of machine learning.	duction and basic knowledge of ta, basic statistical analysis, dat	of Data Analysis and Vi a mining techniques, as	ualization. It covers the well the fundamental	
Evaluation(Rubrio)	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail]]
Evaluation (FLDPTO) Understanding how to make an environment for R programming and debugging own set.	Demonstrates excellent knowledge and understanding of	Achievement Rabool Demonstrates good knowledge and	Achievement Ihall Lacks the appropriate knowledge and understanding of how to	
	how to create an environment for R programming and debugging	understanding of how to create an environment fo R programming and debugging.	create an environment for R programming and debugging.	
Understanding how to analyze and maipulate scientific data of specific problem using R.	Demonstrates excellent inowledge and understanding how to analyze and mejodate scientific data of specific problem using R in the right way.	Demonstrates good knowledge and understanding how to analyze and meipulate scientific data of specific problem using R in the right way.	Lacks the appropriate knowledge and understanding how to analyze and maipulate scientific data of specific problem using R in the right way.	
Understanding how to visualize scientific data of specific problem using R.	Demonstrates excellent knowledge and understanding how to visualize scientific data of specific problem using R in the right way.	Demonstrates good knowledge and understanding how to visualize scientific data o specific problem using R in the right way.	Lacks the appropriate knowledge and understanding how to visualize scientific data of specific problem using R in the right way.	
	Relationship with Learning	Outcomes	1	1
C(1) Ability to operate and administe	r the computer software an	d hardware		
C(2) Ability to understand the operation C(5) Ability to exply the update technologies to eupport the development				
Teaching Mathod Outline:	1 x x x x x x x x x x x x x x x x x x x	Lecture and Practice	and Banoch	
Class Format: Please Note :	Lecture. Pro Students are required t	o ask any questions aft	and Reports ar sufficient self-learning,	ł
Course Plan Semester 2	Contents and Met	nod of Course	Goele	Related MC
1st week		Introduction and Guidance / R basic		V-D 1 V-D 1 V-D 1
2nd week	Data Wrangling		Understand and use Data Wrangling	V-D 1 V-D 7 V-D 7 V-D 7
3rd week	Data Wrangling		Understand and use Data Wrangling	V-D 7 V-D 7 V-D 7 V-D 7
4th week	Exploratory Data Anals	Exploratory Data Analysis with data.table		V-D 7 V-D 7 V-D 7
5th week	Data Visual	ization	Understand and use Data Visualization	V-0 7 V-0 7 V-0 7 V-0 1
6th week	Holiday			V-D 1
7th week	Data Visualization		Understand and use Data Visualization	V-D 7 V-D 7 V-D 7 V-D 1 V-D 1
8th week	Mid-term Report		Understand and use some concept of data analysis and visualizaiton	V-D 7 V-D 7 V-D 7 V-D 7 V-D 1
9th week	Holiday			
10th week	Mid-term			V-0 7
Make up class on 10th Jan 2023	Data Visualization / Statistic with R		Understand and use Data Visualization and Statistic with R	V-D 7 V-D 7 V-D 7
11th week	Statistic with R		Understand and use Statistic with R	V-D 7 V-D 7 V-D 7
12th week	Statistical Testing Prediction		Understand and use Statistical Testing Prediction	V-D 7 V-D 7 V-D 7 V-D 7 V-D 7 V-D 7 V-D 1 V-D 1
13th week	Statistical Testing Prediction		Understand and use Statistical Testing Prediction	V-D 7 V-D 7 V-D 7 V-D 7 V-D 7 V-D 1 V-D 1
14th week	Data visualization with deshboards/ Small Project description		Understand the usage of Data visualization with distributed and Demonstrate a small project realted to data analysis and visualization	V-D 7 V-D 7 V-D 7 V-D 7 V-D 7 V-D 7 V-D 1 V-D 1
15th week	Small Pro	Small Project		V-D 1 V-D 7 V-D 7 V-D 7 V-D 7 V-D 7 V-D 1
16th week	Small Project Pr	Small Project Presentation		V-D 1 V-D 7 V-D 7 V-D 7 V-D 7 V-D 7 V-D 1
17th week	Holiday			
18th week	Final Report		Understand and use all concept of data analysis and visualizaiton	V-D 1 V-D 7 V-D 7 V-D 7 V-D 7 V-D 7 V-D 1
19th week	Final Ex	am		
20th week	Final Exam			
	•			
	Mid Term Report	Final Report	Mutual Evoluations between students	Extinue Porticio