Programming 4	]			
Basic Course Information Course Number Class Format	coosses Lecture	Subject Category Credit Type and Number of Credits	Compulsory (C) 1	-
Department Period of Study	Computer Semester 2	Credit Type and Number of Credits Student Category Classes per Week	Year 2 1	1
Required Materiale Instructor	Krittanik Srithanasam		Shashi Shah	ł
Course Objective The course provides that students will learn basic program Students will learn how to use modules and classes in Pyt	ming concepts and techniques. Str hon.	idents will use Python as th	ir programming language.	
Evaluation (Rubrio)	Ideal Level of Achievement Very Good	Standard Level of Achievement (Good	Unacceptable Level of Achievement (Fail)	]
Understanding how to design object-oriented model and implements in Python	Demonstrates very good knowledge and understanding of how to docino chiant oriented	Demonstrates good knowledge and instantion of how to	Lacks knowledge and understanding of how to design whient-wienteri model and	
	how to decise chiart oriented Demonstrates very good	Demonstrates good	nhiert_niertent model and Lacks knowledge and	-
Understanding how to use a module of OperCV in python program to handle camera devices and apply the module of implement recognition system	Neur to decian relation values relations Demonstrates very good knowledge and understanding of how to use a module of OpenCV in python program to handle camera devices and apply the module to implement recognition system	Interestitution / if four to Demonstrates good knowledge and understanding of how to use a module of OpenCV in python program to handle carmera devices and apply the module to implement recognition system	Indextournation model and understanding of how to use a models of OpenCV in python program to handle camera devices and apply the module to implement recognition system	
Understanding how to use a module of Flask in python program to handle and deploy small web server	Demonstrates very good knowledge and understanding of how to use a module of Flask in python program to handle and deploy small web server	Demonstrates good knowledge and understanding of how to use a module of Flask in python program to handle	Lacks knowledge and understanding of how to use a module of Flask in python program to handle and deploy small web server	
Understanding how to programming with sockets and principle of Client/Server	Demonstrates very good knowledge and understanding of how to programming with sockets.	Demonstrates good knowledge and understanding of how to programming with sockets.	Lacks knowledge and understanding of how to use a module of Flask in python program to programming with sockets.	
Rei C(1) Ability to operate and administer the co	tionship with Learning Outcomes			, ]
C(2) Ability to understand the operating syst C(3) Ability to design, propose and implement			blems.	-
				]
Teaching Method Outline:	Lecture	and practice, group di	cussion	-
Outlins: Clase Format: Please Note :	Lecture and practice, group discussion Lecture, practice, quiz, and reports			}
Course Plan				1
Semester 2	Contents and Met	hod of Course	Goele	Related MCC
vuosik 1	Guidance: Introduction, Confirmation of laptop setting, Object-oriented Programming		Understanding Guidance: Introduction, Confirmation of laptop satting, Object-oriented Programming	V-D 1 2
week 2	Object-oriented Programming ( Cancept )		Understanding Object-Oriented Programming	V-0 1 2 V-0 1 3 V-0 1 4
week 3	Object-oriented Programming ( Technique & its application )		Understanding Object-Oriented Programming and its application	V-D 1 14 V-D 1 15 V-D 1 16
week 4	Object-oriented Programming ( Technique & its application )		Understanding Object-Oriented Programming	V-D 1 14 V-D 1 15 V-D 1 16
week 5	Guidance: Introduction, OpenCV		Understanding principle of OpenCV	V-D 1 1 V-D 1 3 V-D 1 4
week 6	OpenCV		Understanding OpenCV with simple implementation	V-D 1 1 V-D 1 3 V-D 1 4 V-D 1 5
week 7	OpenCV		Understanding OpenCV	V-D 1 1 V-D 1 3 V-D 1 4 V-D 1 5
week 8	Midtern Examination		Midterm Examination	
week 9	Midterm Examination		Midterm Examination	×.0
week 10	Guidance: Introduction, Web App deployment (Flask)		Understanding the principle of Web Application	V-D 1 4 V-D 1 5
week 11	Web App deployment (Flask)		Understanding Web App deployment	V-D 1 3 V-D 1 4 V-D 1 5
week 12	Guidance: Introduction, Programming with Sockets		Understanding Network Programming with Client & Server Applications	V-D 1 3 V-D 1 4 V-D 1 5
week 13	Client and server Application		Understanding Network Programming with Client & Server Applications	V-D 1 3 V-D 1 4 V-D 1 5
week 14	School Event		School Event	V-D 1 1
week 15	Client and server Application		Understanding Network Programming with Client & Server Applications	V-D 1 3 V-D 1 4 V-D 1 5 V-D 1 14
week 16	Small Project		Understanding Small Project	V-D 1 15 V-D 1 16 V-D 1 17 V-D 1 17
week 17	Small Project		Understanding Small Project	V-D 1 15 V-D 1 16 V-D 1 17
week 18	Review before final exam		Review before final exam	
week 19	Final Examination		all weeks	
week 20	Return Exam Papers	s and Feedback	Review and summarize learning	Dono
	Midterm Report	Final Examination	Small Protect/Report/Homowrok	
Basic Ability Technical Ability Interdisciplinary Ability	20	15 20 0	5 15 10	
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