Tsuyama College	Year	2021	Course Title	Basic Practice in Information Processing Ⅱ

Course Information

Course Code	0012	Course Category	Specialized / Elective
Class Format	Lecture	Credits	School Credit: 1
Department	Advanced Mechanical and Control System Engineering Course	Student Grade	Adv. 1st
Term	Second Semester	Classes per Week	2
Textbook and/or Teaching Materials			
Instructor	TAKETANI Hisashi		

Course Objectives

Learning purposes :
A basis of a system of UNIX and the command and a shell script are acquired.
Beginner's course acquisition of Visio (figure making software with the high function)

Course Objectives :
1. The student can acquire a basis of UNIX and utilize programing environment for a problem solution.
2. It's possible to utilize numerical formula processing software and physical simulation software.
3. An electric circuit and a network figure can be made in Visio.

Rubric

	Excellent	Good	Acceptable	Not acceptable
Achievement 1	The UNIX environment can be put to good use in a problem solution.	The student can acquire a basis of UNIX and utilize programing environment.	The student can use programing environment on UNIX.	The student dose not reach the following.
Achievement 2	The student can utilize appropriate software and do a problem solution.	The A student can utilize numerical formula processing software and physical simulation software.	The student can use numerical formula processing software and physical simulation software.	The student dose not reach the following.
Achievement 3	The student can utilize VISIO for each problem solution.	The student can draw an electric circuit and a network figure using VISIO.	The student can draw basic electric circuit and network figure using VISIO.	The student dose not reach the following.

Assigned Department Objectives

Teaching Method

Outline	General or Specialized : Specialized Field of learning : Information, measurement and control Foundational academic disciplines : Overall territory/ informatics/ computer system network Relationship with Educational Objectives : This class is equivalent to "(2) Knowledge of specialized field technology is acquired and the ability which can be utilized for a design of a machine and a system, a policy and practical use is learned". Relationship with JABEE programs : The main goal of learning / education in this class is "(C) and (C-1)", also "(A-1) and (C-2)"is involved. Course outline : The computer literacy ability learned in Basic practice I in Information Processing or Applied practice I in Information Processing is understood about a system of the UNIX which becomes a basis of a computer technology higher the one in a place of learning and a study and the technology with the basic command as a basis. It's also learned about a shell script.
Style	Course method : The student maneuvers by a PC in the application seminar room in an overall information center mainly. Grade evaluation method : The understanding and the accomplishment which face each problem (report and work), 80% and announcement 20%
Notice	Precautions on the enrollment : This class is "subject which requires learning in schooltime outside". Learning for 45 hours is needed per a semester hour together with learning outside the schooltime concerned and the schooltime. Follow directions of a teacher in charge about learning in schooltime outside. Course advice : 1. Review the contents of I or Basic Practice I in Information Processing and Applied practice I in Information Processing as the learning of preparations performed beforehand. 2. Even if it's taken, which can be taken in the first term, Basic Practice I in Information Processing and or Applied practice I in Information Processing. Foundational subjects : Basic Practice I in Information Processing and or Applied practice I in Information Processing. Attendance advice : When it's within class starting for 20 minutes, it's made lateness and 1 deficit is done with the department by 3 times of lateness.

Characteristics of Class / Division in Learning

☐ Active Learning	☑ Aided by ICT	☐ Applicable to Remote Class	☐ Instructor Professionally Experienced

Course Plan

			Theme	Goals
2nd Semester	3rd Quarter	1st	Guidance	
		2nd	Numerical formula processing soft "maxima"	Numerical formula processing soft "maxima"
		3rd	Numerical formula processing by "maxima" Equation, simultaneous equation, procession and differential and integral calculus	Numerical formula processing by "maxima" Equation, simultaneous equation, procession and differential and integral calculus
		4th	Physical simulation by "Phun" (1)	Physical simulation by "Phun"
		5th	Physical simulation by "Phun" (2)	Physical simulation by "Phun"
		6th	Presentation of Physical simulation object	Presentation of Physical simulation object
		7th	CentoOS guide	CentoOS guide
		8th	Environmental improvement on CentoOS	Environmental improvement on CentoOS
	4th Quarter	9th	C programming on CentoOS (1)	C programming on CentoOS
		10th	C programming on CentoOS (2)	C programming on CentoOS
		11th	C programming on CentoOS (3)	C programming on CentoOS
		12th	Basic knowledge about Unix, job control and shell	Basic knowledge about Unix, job control and shell
		13th	File system and behavior of all kinds' command	File system and behavior of all kinds' command
		14th	Shell programming on CentoOS	Shell programming on CentoOS
		15th	File operation by shell	File operation by shell
		16th	Basic operation of Visio	Basic operation of Visio

Evaluation Method and Weight (%)

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	20	0	0	80	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	20	0	0	80	0	100
Cross Area Proficiency	0	0	0	0	0	0	0