## Tamkang University Academic Year 112, 2nd Semester Course Syllabus

Course Title	LINUX DESIGN PRACTICE	Instructor	JEONG JAESIK
Course Class	TKFXB2P DEPARTMENT OF ARTIFICIAL INTELLIGENCE, 2P	Details	<ul><li>◆ General Course</li><li>◆ Selective</li><li>◆ One Semester</li></ul>
Relevance to SDGs	SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure SDG17 Partnerships for the goals		

## Departmental Aim of Education

- I . Students may analyze problems in applied science based on the fundamental knowledge of programming, mathematics, and artificial intelligence.
- II. Students may plan and implement an AI system following the procedures of problem analysis, experiment testing, data visualizing, derivation and deduction.
- III. Educate the students to be AI engineers who may accomplish their missions indepedently and may collaborate with their colleagues in the workplace.
- IV. Students may have basic skills and global competence for career diversification, and may keep lifelong learning.

## Subject Departmental core competences

- A. Professional analysis.(ratio:40.00)
- B. Practical application.(ratio:40.00)
- C. Professional attitude.(ratio:10.00)
- D. Global Mobility.(ratio:10.00)

## Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:10.00)
- 2. Information literacy. (ratio:30.00)
- 3. A vision for the future. (ratio:10.00)
- 4. Moral integrity. (ratio:10.00)
- 5. Independent thinking. (ratio:15.00)
- 6. A cheerful attitude and healthy lifestyle. (ratio:5.00)
- 7. A spirit of teamwork and dedication. (ratio:15.00)
- 8. A sense of aesthetic appreciation. (ratio:5.00)

In	Course troduction	knowle in Artif basic c	edge of Linux, one of the icial Intelligence and Ro ommands to advanced	s designed to teach students the skills and e most powerful and widely used operatir obotics. Students will explore Linux Systen techniques. This course offers practical, h elp students navigate the versatile Linux.	ng systems ns from
II.A	ferentiate the mains of the o Cognitive : Er the Affective : Em mo Psychomotor	e various o course's in mphasis u course's phasis up rals, attitu	and objective methods amonstructional objectives.  I pon the study of various veracity, conception, pron the study of various ude, conviction, values, is upon the study of the	us kinds of knowledge in the cognition of rocedures, outcomes, etc. kinds of knowledge in the course's appea	tor
No.			Teaching Ol	ojectives	objective methods
1	<ol> <li>Learning L</li> <li>Enhancing</li> <li>Proficiency</li> </ol>	g Problem	-Solving Abilities	Psychomotor	
	The	correspond	lences of teaching objectives	s : core competences, essential virtues, teaching me	ethods, and assessment
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment
1	ABCD		12345678	Lecture, Discussion	Testing
				Course Schedule	
Week	Date		Cou	irse Contents	Note
1	113/02/19 ~ 113/02/25	Introduction to Linux			
2	113/02/26 ~ 113/03/03	Linux Basic Utilities			
3	113/03/04 ~ 113/03/10	Linux Editors and shell Scripting			

113/03/10

113/03/17

113/03/24

Linux User and Group Management

Linux Package Management

6	113/03/25 ~ 113/03/31	Linux Processes and filters		
7	113/04/01 ~ 113/04/07	Holidays (Children's Day, Tomb Sweeping Day)		
8	113/04/08 ~ 113/04/14	Linux Networking Basic		
9	113/04/15 ~ 113/04/21	Midterm Exam Week		
10	113/04/22 ~ 113/04/28	Linux Advanced Shell Scripting		
11	113/04/29 ~ 113/05/05	Linux Administration		
12	113/05/06 ~ 113/05/12	Linux File Systems		
13	113/05/13 ~ 113/05/19	Linux Development Tools		
14	113/05/20 ~ 113/05/26	Linux Development Tools		
15	113/05/27 ~ 113/06/02	Linux Programming Tools		
16	113/06/03 ~ 113/06/09	Linux Programming Tools		
17	113/06/10 ~ 113/06/16	Final Exam Week (Date:113/6/11-113/6/17)		
18	113/06/17 ~ 113/06/23	Flex week, learning activities should be arranged.		
Key capabilities		self-directed learning International mobility Information Technology Problem solving		
Int	erdisciplinary			
Distinctive teaching				
Course Content		Computer programming or Computer language (students have hands-on experience in related projects)  Logical Thinking  AI application		
Requirement				

Taraharaharan	Self-made teaching materials:Presentations				
Textbooks and Teaching Materials					
References					
	◆ Attendance: 20.0 % ◆ Mark of Usual: 20.0 % ◆ Midterm Exam: 30.0 %				
Grading Policy	◆ Final Exam: 30.0 %				
Policy	◆ 0ther ⟨ ⟩ : %				
	This syllabus may be uploaded at the website of Course Syllabus Management System at				
Note	http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php.				
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