강의계획서(Syllabus) [2022-1학기 [T05301201]정보시스템개발및실습(Developing Information Systems with Lab)]

수업방식 : 비대면

학수번호 (Course No.)	[T05301-2] T05301201	**교과목명 (Course Title)**	정보시스템개발및실습 (Developing Information Systems with Lab)
이수구분 (Course Classification)	전공	**학과 (Department)**	산업경영공학과 (Department of Industrial and Management Engineering)
학년(기) (Year)	3	**학점/강의시간 (Credits/Hours)**	3/3
교수 (Instructor)	Bernardo Nugroho Yahya (Bernardo Nugroho Yahya)	**연구실 (Instructor's Office)**	공학관(용인) 514호
강의시간(강의실위치) Time (Location)	월 6 화 7 8 ( ) (Mon 6 Tue 7 8 ( ))	**Tel/E-mail Contact Information (Telephone/e-mail)**	종합정보시스템 로그인을 통해 확인하시기 바랍니다, Please log-in to HUFS Portal to access this information.
강의유형 (Class Type)	원어강의[영어(English)]		
제한인원 (Maximum Enrollment)	51	**면담가능시간 (Office Hours)**	
교과목개요 및 학습목표 (Course Description & Objectives)	This is a project-oriented course that will enable the students to use various techniques for building browser-based applications for dynamically generated websites, e-commerce, web-enabled enterprise computing, and other applications that require web access to server-based resources. This course will use Django Framework with Python as the prominent high-level programming languages and front-end cross platform framework for responsive web development.		
교재 (Required Texts)	Aidas Bendoraitis, Web Development with Django Cookbook, 2014 Daniel Rubio, Beginning Django: Web Application Development and Deployment with Python, 2016		
참고문헌 (Reference Books)			
수업운영방식 (Teaching Methods)	This course will use English for the entire lectures		

학습평가방법 (Evaluation)

(1)중간시험 (Midterm Exam)	(2)기말시험 (Final Exam)	(3)출석 (Attendance)	(4)과제물 (Assignment)	(5)기타 (발표 및 토론, 프로젝트, 수업참여도 등)	(6)학생 본인 부담 (Cost Paid by Students)	
					비용	설명

					(Etc. (Presentation, discussion, project, participation))	**(Cost)**	**(Descriptions)**
	20%	20%	5%	25%	30%		
	※ 추가설명 :						
기타안내 및 유의사항 (Other Information and Notices)	The reduced classes due to the postponement of the first day of the semester will be made up through supervision and evaluation of report.						
장애학생 지원 (Support for Students with Disabilities)	- 강의 : 대필도우미 지원가능 - 과제 : 제출기한 연장(교수재량) - 평가 : 대필도우미 지원가능, 시험시간 연장(교수재량)						

주차(Week)	**내용(Contents)**
1st	Introduction to Django Framework
2nd	HTML Basic
3rd	Developing a Blog - Basic of Dynamic Web Page
4th	Developing the First Page Application - Basic Template System
5th	Model - View - Template - Interaction with Database
6th	Model - View - Template - Content modification
7th	Model - View - Template - Form Processing
8th	Mid-Exam
9th	Basic JavaScript in Django
10th	XML and JSON
11th	Basic REST Framework
12th	Basic AJAX with Django
13th	Web Data Visualization (D3.js)

14th	Django Deployment, Application with Django + Meeting for Final Project
15th	Final Exam
16th	Final Project Presentation, Q & A

제1과제 (Assignment1)	**Title**	Develop an HTML file with various components
	Due Date	
	Objective	Student can develop their own web GUI using HTML Student can understand the components of HTML Student can apply the HTML components into the GUI
	Guidance & Notice	
	Reference	
제2과제 (Assignment2)	**Title**	Build a Query for Sqlite
	Due Date	
	Objective	Student can understand the SQL (Structure Query Language). Student can understand the concept of Database Student can manipulate the data shown in the HTML
	Guidance & Notice	
	Reference	
제3과제 (Assignment3)	**Title**	Essay on Single Page Application (SPA) vs. Multi page application
	Due Date	
	Objective	Student can understand on the concept of SPA Student can analyze the merit and demerit of SPA Student can compare between the traditional web (Multi Page Application) with the current issues on SPA
	Guidance & Notice	
	Reference	

목표 핵심역량 (Target Core Competency)	**(1) 자기주도적 학습역량(Self-directed Learning Competency)** - 학습계획 수립 및 실행능력(Ability to plan and execute learning plans) - 문제발견 및 해결능력(Ability to find and solve problems) - 진로설계능력(Career planning)
	(2) 지식.정보.기술 활용역량(Knowledge, Information & Technology Utilization Competency)

	- 논리적, 분석적 사고능력(Logical and analytical thinking skills) - 추론적, 평가적 사고능력(Inferential and evaluative thinking skills) - ICT 활용능력(ICT literacy)
	(3) 창의.혁신역량(Creativity & Innovation Competency) - 창의적 사고능력(유창성, 융통성, 독창성, 정교성, 유추성) (Creative thinking capabilities (fluency, flexibility, originality, accuracy, inferential thinking)) - 창의적 사고성향(민감성, 개방성, 자발성)(Creative thinking tendencies(Sensitivity, Openness, Spontaneity)) - 도전 및 위기관리 능력(Challenges and Crisis Management capabilities)
	(4) 대인관계역량(Interpersonal Competency) - 연관성 없음(N/A)
	(5) 세계시민역량(Global Civic Competency) - 연관성 없음(N/A)
	(6) 의사소통역량(Communication Competency) - 연관성 없음(N/A)
핵심역량 추진 전략 (Strategy for Core Competency-Within 1000 characters)	