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CSS234 WEB PROGRAMMING II

LECTURE 01 – COURSE SYLLABUS

Objectives

- Apply a structured approach to identifying needs, and functionality of a website.
- Design and create a dynamic website that meet specified needs using libraries and frameworks.
- Perform unit and integration testing.
- Validate and verify the web program developed.

Lecture

Week	Topic
1	Introduction
2	Web development design pattern
3	Requirement engineering
4	Frontend framework
5	CSS framework
6	Project progress 1
7	Web technology 1
8	Lab test #1
9	Midterm exam
10	Backend framework
11	API
12	Web security
13	Project progress 2
14	PWA
15	Unit and Integration test
16	Web server
17	Web technology 2
18	Lab test 2
19	Project presentation

Lab

Week	Topic
1	Introduction
2	React 1
3	React 2
4	React 3
5	TailWindCSS
6	Project progress 1
7	Web technology 1
8	Lab test #1
9	Midterm exam
10	Backend framework 1
11	Backend framework 2
12	Web security
13	Project progress 2
14	PWA
15	Unit and Integration test
16	Web server
17	Web technology 2
18	Lab test #2
19	Project presentation

Assessment & Textbooks

วิธีการวัดและประเมินผล	สัดส่วนของการวัดและ การประเมินผลรวม
การบ้าน	15%
สอบย่อย	20%
Project	40%
สอบกลางภาค	20%
Web technology present	5%

Textbook:

- Alex Banks and Eve Porcello, *Learning React Modern Patterns for Developing React Apps* 2nd Edition, O'Reilly Media, Inc., 2020.
- James Higginbotham, *Principles Of Web Api Design: Delivering Value With Apis And Microservices*, Addison-Wesley, 2021.

Project organization

- Number of members – One or **Two**, any conditions for grouping?
- Topic – Fixed or **Flexible**

Task

- Create web app based on the topic supported by user needs or requirements
- Select one web technology: learn, summarize and present with demo (if applicable) to your friends (5 mins)