



# Teaching Plan

## College of Arts, Media and Technology

### Software Engineering

### 953331 Component-Based Software Development

### Second Semester, Academic Year 2025

1. **Lecturer** : Chartchai Doungsa-ard
2. **Learning Style** : ( / ) Lecture ( / ) Laboratory  
( ) Others .....
3. **Prerequisites** : 953232 OBJECT ORIENTED ANALYSIS AND DESIGN
4. **Credit** : 3 (2-2-5)

### 5. Course Objective

Students will be able to

1. Explain the Component Based Technology
2. Analyze the solution using the Component Based Technology
3. Solve the problem using Component Based Technology

### 6. Course Content

#### Lecture

Date	Topic	Remarks
24 <sup>th</sup> Jun 2025	Introduction	
1 <sup>st</sup> Jul 2025	No Class	
8 <sup>th</sup> Jul 2025	Introduction to Web Framework	
15 <sup>th</sup> Jul 2025	Type Script and Vite	
22 <sup>nd</sup> Jul 2025	Vue Router	
29 <sup>th</sup> Jul 2025	Vue Router Cont + Pinia	
5 <sup>th</sup> Aug 2025	CSS Component, Web Deployment	
12 <sup>th</sup> Aug 2025		(The Queen BirthDay Holiday)
Midterm Examination Preparation (18 <sup>th</sup> – 24 <sup>th</sup> Aug 2025)		
Midterm Examination (25 <sup>th</sup> -31 <sup>st</sup> Aug 2025)		
2 <sup>nd</sup> Sep 2025	Introduction to Spring Boot	
9 <sup>th</sup> Sep 2025	Spring MVC	
16 <sup>th</sup> Sep 2025	Profile and Entity Relationship	
23 <sup>rd</sup> Sep 2025	Vue Component	
30 <sup>th</sup> Sep 2025	Spring JPA Query	
7 <sup>th</sup> Oct 2025	Cloud Service and Package Management	

Date	Topic	Remarks
14 <sup>th</sup> Oct 2025	Spring security	
Final Examination (20 <sup>th</sup> Oct – 3 <sup>rd</sup> Nov)		

## Lab

The lab time is used for solving your problem in the lab, lab submission and make up class only. The lab is provided as a bunch of lab sheet which will be provided before the lab time.

Date	Topic	Remarks
27 <sup>th</sup> Jun 2025	Introduction to Vue	
4 <sup>th</sup> Jul 2025	Vue Vite Implementation	
11 <sup>th</sup> Jul 2025		(Buddhist Lent Holiday)
18 <sup>th</sup> Jul 2025	Vue Router	
25 <sup>nd</sup> Jul 2025	Vue Router and Pinia	
1 <sup>st</sup> Aug 2025	CSS Component	
8 <sup>th</sup> Aug 2025	Deployment	
15 <sup>th</sup> Aug 2025	Lab Late Submission	
Midterm Examination Preparation (18 <sup>th</sup> – 24 <sup>th</sup> Aug 2025)		
Midterm Examination (25 <sup>th</sup> -31 <sup>st</sup> Aug 2025)		
5 <sup>th</sup> Sep 2025	Introduction to Spring Boot	
12 <sup>th</sup> Sep 2025	Spring Boot JPA	
19 <sup>th</sup> Sep 2025	Entity Relationship	
26 <sup>th</sup> Sep 2025	JPA Query and Cloud Service	
3 <sup>rd</sup> Oct 2025	Cloud Service Integration	
10 <sup>th</sup> Oct 2025	Spring Security	
17 <sup>th</sup> Oct 2025	Lab Late Submission	
Final Examination (20 <sup>th</sup> Oct – 3 <sup>rd</sup> Nov)		

## 6. Course Requirements

- 6.1 Lectures in class (2 hours per week)
- 6.2 Lab Practice (2 hours per week)
- 6.3 Quizzes and assignments
- 6.4 Term projects
- 6.5 Midterm and final exams

## 7. Grading System

7.1 Lecture Activity	5 %
7.2 Lab	10 %
7.3 Term projects	35 %
Project 1	15 %
Project 2	20 %
7.4 Midterm Examination	20 %
7.5 Final Examination	30 %
<b>Total</b>	<b>100 %</b>

The semester grade is computed:

(        ) Criteria Reference            (   /   ) Group Reference

#### 8. Course Text s:

10.1