

Course Syllabus 2190512 – Application Development

1. Course Number: 2190512
2. Credit: 3 (3-0-6)
3. Course Name: Application Development
4. Department: ICE
5. Semester: 2
6. Academic Year: 2024
7. Instructor: Asst.Prof. Sukree Sinthupinyo (Ph.D.)
Machigar Ongtang (Ph.D.)
8. Prerequisite: -
9. Type: Required
10. Program: Bachelor of Engineering
11. Course Level: Undergraduate
12. Hours: 3 Hr./week
13. Course Description
Full-stack development from backend to frontend. Modern backend development tools; data analysis. Current database tools. Well-known frontend development framework for web and mobile applications. Hands-on practice in all levels of software application development.
14. Objectives
 1. Understand Full-Stack Development from backend to frontend.
 2. Can use modern backend tools for efficient data processing and management.
 3. Can analyze and manage Data
 4. Can use frontend frameworks
15. Schedule
Week 1 – Course Overview and Review of Python
Week 2 – Pandas
Week 3 – Seaborn and Plotly, HW1
Week 4 – MongoDB
Week 5 – MySQL

Week 6 – Firebase

Week 7 – Review

Week 8 – Midterm

Week 9 – API using flask , HW2

Week 10 – HTML, CSS, Javascript, Present Proposal

Week 11 – JavaScript (2)

Week 12 – React Native (1)

Week 13 – React Native (2)

Week 14 – React Native (3), HW3

Week 15 – Review

Week 16 – Final

Lecture

16. Teaching Method

VDO, Lecture+Live Demonstration

17. Grading

Midterm: Final: Project = 30:40:30

18. Project (30%)

1. Concept by an interesting topic
2. Submit a proposal
3. Present the final project