LE302 ELECTRICAL ENGINEERING DESIGN

วฟ.302 การออกแบบงานทางวิศวกรรมไฟฟ้า

Design Projects on Topics in Electrical Engineering

Week	Topic / Content	Week	Topic / Content
9	Overview - Microcontroller ESP32s (8266) - IDE / Simulator: Set board, Set speed, Debug - Basic Program => Hello world	13	Display & Sensor - Display: LCD 4 lines, LED - Sensor: DHT, Voltage/Current sensor
10	Output - LED, motor - State transition diagram map to code	14	IoT Application: show results to usersBlynkWeb ServerNetpieLine chatbot
11	Input - Switch - State transition diagram map to code	15	Quiz
12	Input & Output - Analog Out: PWM - Analog In: Interrupt driven		

Assessment methods	Assessment week	Assessment score
Homework	9-13	15%
Quiz	12	5%
Final Exam	15	20%

1. Main Text

o Rui Santos and Sara Santos, "Learn ESP32 with Arduino IDE", eBook Version 1.4.

2. Course Materials

 $\circ \quad \underline{https://github.com/sommedosa/Microcontroller-Course}$