

# Duties of Lecture & Laboratory Sessions

Week 1	<b>September 4 (LSB LT2)</b> <b>Lecture:</b> Topic 1 (p.9-22); Topic 2 (p.23-35)	<b>September 4</b> <b>No lab activity</b>
Week 2	<b>September 11 (LSB LT2)</b> <b>Lecture:</b> Topic 2 (p.36-63)	<b>September 11 (SHB 402)</b> <b>Lab 1:</b> Software usage 1 "Getting start - Keil C"
Week 3	<b>September 18 (LSB LT2)</b> <b>Lecture:</b> Topic 2 (p.64-86)	<b>September 18 (SHB 402)</b> <b>Lab 2:</b> Software usage 2 "Keil C - More exercises"
Week 4	<b>September 25 (LSB LT2)</b> <b>Lecture:</b> Topic 3: I/O (p.87-105)	<b>September 25 (SHB 402)</b> <b>Lab 3:</b> I/O - Experiments 1, 2 & 3
Week 5	<b>October 2</b> <b>Holiday; no class</b>	<b>October 2</b> <b>Holiday; no class</b>
Week 6	<b>October 9 (LSB LT2)</b> <b>Lecture:</b> Topic 3: I/O (p.106-109)	<b>October 9 (SHB 402)</b> <b>Lab 4:</b> I/O – Experiments 4, 5, 6 & 7
Week 7	<b>October 16 (LSB LT2)</b> <b>Lecture:</b> Topic 3: I/O (p.110-114)	<b>October 16 (SHB 402)</b> <b>Lab 5:</b> I/O – Experiments 8, 9 & 10
Week 8	<b>October 23 (LSB LT2)</b> <b>Test</b>	<b>October 23</b> <b>No lab activity</b>
Week 9	<b>October 30 (LSB LT2)</b> <b>Lecture:</b> Topic 4: Interrupt (p.115-121) <b>Lecture:</b> Topic 5: Timer and Counter (p.122-131)	<b>October 30 (SHB 402)</b> <b>Lab 6:</b> Interrupt - Experiment 11 <b>Lab 6:</b> Timer and Counter - Experiments 12 & 13
Week 10	<b>November 6 (LSB LT2)</b> <b>Lecture:</b> Topic 5: Timer and Counter (p.132-137) <b>Lecture:</b> Topic 6: Serial Communication (p.138-145) <b>Briefing:</b> Instruction on MCU-8051 Hardware Implementation	<b>November 6 (SHB 402)</b> <b>Lab 7:</b> Timer and Counter - Experiments 14, 15, 16 & 17 <b>Lab 7:</b> Serial communication - Experiment 18
Week 11	<b>November 13 (LSB LT2)</b> <b>Lecture:</b> Topic 7: Interfacing (p.146-158) + Demonstrations (Experiment 19 & 20)	<b>November 13 (SHB 402)</b> <b>Lab 8:</b> Hardware implementation + Programmer Usage
Week 12	<b>November 20 (LSB LT2)</b> <b>Lecture:</b> Topic 8: MCU-8051 — Step Motor (p.159-162) <b>Lecture:</b> Topic 9: MCU-8051 — C Programming (p.163-167)	<b>November 20 (SHB 402)</b> <b>Lab 9:</b> Step motor - Experiment 21
Week 13	<b>November 27 (LSB LT2)</b> <b>Lecture:</b> Arduino	<b>November 27 (SHB 402)</b> <b>Lab 10:</b> Arduino