

Schedule: Autumn 2021 (as of 17 August 2021)

| <b>Week</b> | <b>Lecture</b><br><i>Lx/Ly</i> ( ) $\Rightarrow$ Repetition chapter in book for reading<br>-number $\Rightarrow$ Chapter in book covered in lecture                               | <b>Laboratory</b>               |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 34          | Introduction-measurement technique, resistance (1),(2)<br>DC circuits, Norton, Thevenin- <b>3</b><br>capacitance, inductance-(4),(5)<br><b>L1/L2</b>                              | Register for laboratory section |
| 35          | Alternating voltages and currents, $j\text{-}\omega$ method- <b>6</b> , power in<br>AC circuits- <b>7</b> ,<br>Frequency characteristics of AC circuits- <b>8</b><br><b>L3/L4</b> | Register for laboratory section |
| 36          | Transient behaviour & damping- <b>9</b><br>Systems, sensors, transducers (11), (12), (13), Amplifiers- <b>14</b><br><b>L5/L6</b>                                                  | Register for laboratory section |
| 37          | Feedback and control- <b>15</b> , Operational amplifiers- <b>16</b><br><b>L7/L8</b>                                                                                               | 1) First Labs week 37           |
| 38          | pn-junctions, diodes, and diode circuits- <b>17</b><br><b>L9/L10</b>                                                                                                              | 2) Second lab week 38           |
| 39          | FET transistors- <b>18</b> , Bipolar Transistors- <b>19</b><br><b>L11/L12</b>                                                                                                     | 3) Third lab                    |
| 40          | Bipolar Transistors- <b>19</b><br>Internal circuitry of op-amps, op-amp families (21)<br><b>L13/L14</b>                                                                           | 4) Fourth lab                   |
| 41          | Noise- <b>22</b> , Positive feedback intro - <b>23</b><br><b>L15/L16</b>                                                                                                          | Prosjektlab                     |
| 42          | Positive feedback & oscillators- <b>23</b><br><b>L17/L18</b>                                                                                                                      | Prosjektlab                     |
| 43          | Oscillator stability and Nyquist diagrams- <b>23</b> ,<br>Digital systems-Combinational logic- <b>24</b><br><b>L19/L20</b>                                                        | Prosjektlab                     |
| 44          | Sequential Logic- <b>25</b> , Digital devices & Logic families- <b>26</b><br><b>L21/L22</b>                                                                                       | Prosjektlab                     |
| 45          | Logic devices and $\mu$ -processors- <b>27</b> , A/D conversion- <b>28</b><br><b>L23/L24</b>                                                                                      | Prosjektlab                     |
| 46          | Review                                                                                                                                                                            | Prosjektlab                     |
| 47          | No lectures. Available by email                                                                                                                                                   | <b>5) Lab Evaluering</b>        |
| ?           | ? Final exam 09:00-14:00 ?                                                                                                                                                        |                                 |