Daffodil International University
Department of Computer Science and Engineering (CSE)
Faculty of Science & Information Technology (FSIT)

Course Code: CSE212
Course Title: Basic Electronics

Reference Book: **Principles of Electronics**
By: V.K. Mehta, Rohit Mehta

Mid-Term Syllabus (Summer 2020)

1. **Semiconductor Physics: 5.1 to 5.2, 5.4, 5.5, 5.6, 5.8 to 5.13, 5.15, 5.16, 5.18 to 5.20 (Week 1, 2, 3)**

2. **Semiconductor Diode: 6.1, 6.2, 6.4, 6.7, 6.8, 6.10 to 6.13, 6.15, 6.18, 6.20, 6.21, 6.24 to 6.27 (Week 4, 5, 6)**

Mathematical Problems:

Chapter 6: Semiconductor Diode
Example: 6.12 - 6.20, 6.25- 6.30 (VK Mehta)

Final Syllabus (Summer 2020)

1. **Transistor: 8.1 to 8.7,**
      8.8(Circuit, Current amplification factor)
      8.10(Circuit, Current amplification factor, Relation between α and β)
      8.13(Circuit, Current amplification factor, Relation between α and γ) (Week 4, 5)

2. **Field Effect Transistors: 19.1-19.4, 19.6, 19.27 (Week 5, 6)**
3. **Operational Amplifiers(OP-AMP): 31.18 to 31.22, 31.24**

Mathematical Problems:

Chapter 8: Transistors
Example: 8.1 – 8.15 (VK Mehta)

N.B. Final Exam will include both Mid-term and Final Syllabus.