**NOTE:** Please feel free to use the most recent edition of textbooks referenced in this list

**17-Comp-A1 Electronics**

**17-Comp-A2 Digital Systems Design**

**17-Comp-A3 Computer Architecture**

**17-Comp-A4 Program Design and Data Structures**
Carrano and Henry, *Data Abstraction and Problem Solving with C++*, seventh edition
Deitel & Deitel, *C++: How to Program*, tenth edition
Weiss, *Data Structures and Algorithm Analysis in C++*, fourth ed.
Addison-Wesley Hanley, *Essential C++ for Engineers and Scientists*
Wiley Wunder & Roberts, *Developing Java Software*

**17-Comp-A5 Operating Systems**
Addison-Wesley Tanenbaum, *Modern Operating Systems*

**17-Comp-A6 Software Engineering**

**17-Comp-B1 Advanced Computer Architecture**

**17-Comp-B2 Principles of VLSI**
Chen, *CMOS Devices and Technology for VLSI*
Glasser & Dobberpuhl, *The Design and Analysis of VLSI Circuits* Jack & Denyer, *Introduction to MOS LSI Design*

**17-Comp-B3 Data Bases and File Systems**
Date, An Introduction to Data Base Systems, 6th Edition

17-Comp-B4 Computer Graphics

17-Comp-B5 Computer Communications
Stallings, W., Data and Computer Communications, 10th Edition, Pearson
Saadawi, Amman & El Hakeem, Fundamentals of Telecommunication Networks, Prentice-Hall

17-Comp-B6 Computer Control and Robotics Moudgalya,
Digital Control, Wiley-Interscience

17-Comp-B7 Digital Signal Processing
Blandford and Parr, Introduction to Digital Signal Processing, Pearson
Strum & Kirk, First Principles of Discrete Systems and Digital Signal Processing

17-Comp-B8 Computer Integrated Manufacturing
Rehg & Kraebber, Computer Integrated Manufacturing, 3rd ed, Pearson

17-Comp-B9 Artificial Intelligence and Expert Systems
Winston, Artificial Intelligence

17-Comp-B10 Distributed Systems
Tanenbaum & Van Steen, Distributed Systems: Principles and Paradigms, Pearson
Mullender, S. (Editor), Distributed Systems, 2nd Edition, Addison-Wesley

17-Comp-B11 Advanced Software Design
Dasgupta & Dimitriou, Algorithms, McGraw-Hill

17-Comp-B12 Computer Security
Bishop, Introduction to Computer Security, Addison-Wesley
Easttom, Computer Security Fundamentals, third edition

17-Comp-B13 Mechatronic Design
Carreyer et al, Introduction to Mechatronic Design, Pearson