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

#### 17-Comp-A1 Electronics

Sedra & Smith, Microelectronic Circuits, seventh edition

## 17-Comp-A2 Digital Systems Design

Roth, <u>Fundamentals of Logic Design</u>, 7th edition Thorne, <u>Computer Organization and Assembler Language Programming for the IBM PC and</u> Compatibles, Addison-Wesley.

## 17-Comp-A3 Computer Architecture

William Stallings, <u>Computer Organization and Architecture</u>, 10th Edition, Pearson Hayes, <u>Computer Architecture and Organization</u>, 2nd Edition, McGraw-Hill Hennessy & Patterson, <u>Computer Architecture</u>: A <u>Quantitative Approach</u>, 2nd Edition

### 17-Comp-A4 Program Design and Data Structures

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

## **17-Comp-A5 Operating Systems**

Suberschatz & Galvin, <u>Operating System Concepts</u>, 9th Edition Addison-Wesley Tanenbaum, <u>Modern Operating Systems</u>
Stallings, <u>Operating Systems Internals and Design Principles</u>, 8th ed.

#### 17-Comp-A6 Software Engineering

Sommerville, <u>Software Engineering</u>, 10th Edition Pressman, Software Engineering: A Practitioners Approach, 8thEdition, McGraw-Hill

#### 17-Comp-B1 Advanced Computer Architecture

Hennessy and Patterson, <u>Computer Architecture: A Quantitative Approach</u>, 5th ed, Morgan Kaufmann

# 17-Comp-B2 Principles of VLSI

Chen, <u>CMOS</u> <u>Devices and Technology for VLSI</u>
Rabaey & Chandrakasan, <u>Digital Integrated Circuits</u>, 2ED, Pearson
Glasser & Dobberpuhl, <u>The Design and Analysis of VLSI Circuits</u> Jack
& Denyer, <u>Introduction to MOS LSI Design</u>

# 17-Comp-B3 Data Bases and File Systems

Elmasri & Navathe, Fundamentals of Database Systems, 7th Edition

Connolly and Begg, <u>Database Systems: A Practical Approach to Design, Implementation and Management</u>, 4th edition, Addison-Wesley Date, An Introduction to Data Base Systems, 6th Edition

## 17-Comp-B4 Computer Graphics

Foley, van Dam, Feiner & Hughes, <u>Computer Graphics: Principles and Practice</u>, 2nd Edition, Addison-Wesley

#### 17-Comp-B5 Computer Communications

Stallings, W., <u>Data and Computer Communications</u>, 10th Edition, Pearson Wiley Comer, <u>Internetworking with TCP/IP Volume I: Principles, Protocols, and Architecture</u> Kurose & Ross, <u>Computer Networking: A Top-Down Approach</u>, 7th ed, Pearson Saadawi, Amman & El Hakeem, <u>Fundamentals of Telecommunication Networks</u>, Prentice-Hall

# 17-Comp-B6 Computer Control and Robotics Moudgalya,

Digital Control, Wiley-Interscience

# 17-Comp-B7 Digital Signal Processing

Blandford and Parr, <u>Introduction to Digital Signal Processing</u>, Pearson Strum & Kirk, <u>First Principles of Discrete Systems and Digital Signal Processing</u>

### 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, <u>Distributed Systems: Principles and Paradigms</u>, Pearson Shuey, R.L., Spooner, D.L., and Frider, O., <u>The Architecture of Distributed Computer Systems</u>, Addison-Wesley

Mullender, S. (Editor), <u>Distributed Systems</u>, 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
Anderson, Security Engineering, second ed, <a href="https://www.cl.cam.ac.uk/~rja14/book.html">https://www.cl.cam.ac.uk/~rja14/book.html</a>
17-Comp-B13 Mechatronic Design

Carryer et al, Introduction to Mechatronic Design, Pearson

Page 2 of 2