



CSN-101 (Introduction to Computer Science and Engineering)

Lecture 13: Reviewing Syllabus for MTE

Dr. Sudip Roy

Assistant Professor

Department of Computer Science and Engineering

Piazza Class Room: <https://piazza.com/iitr.ac.in/fall2019/csn101>

[Access Code: csn101@2019]

Moodle Submission Site: <https://moodle.iitr.ac.in/course/view.php?id=45>

[Enrollment Key: csn101@2019]



Topics to Study:

- Evolution of Computer Hardware and Moore's Law:
 - ✓ History (no need to remember years)
 - ✓ Moore's Law
- Computer Structure and Components:
 - ✓ Block Diagrams
 - ✓ List of Components and Working Principles in Brief
 - ✓ Organization of a Computer System
- Number Systems:
 - ✓ Binary and Decimal
 - ✓ Conversions between them



Topics to Study:

- Linux Operating Systems:
 - ✓ Basic utility commands
 - ✓ Some system administrator commands
 - ✓ Directory structure, file access permissions (read, write and executable)
 - ✓ Using Vi editor
- Computer Networking and Web Technologies:
 - ✓ Basic concepts of networking, bandwidth, throughput
 - ✓ Different layers of networking
 - ✓ Network components
 - ✓ Type of networks
 - ✓ Network topologies
 - ✓ MAC, IP Addresses, DNS, URL
 - ✓ HTML - Basic tags

Best Wishes for Your MTEs!
