



DCCN - LECTURE - 0 **Conversions**

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Rules and Policies

Mobile Phones:

- Switched off and in your bag/ pocket



Punctuality:

- **Don't be late**
- **Attendance might be done twice.**
- **Initially in first 5 Minutes of Lecture and at any random moment in between.**
- I expect you to stay till the end of lecture. If for some reason you want to leave early, you have to ask for it in advance.





Dishonesty, Plagiarism, Proxy

Plagiarism or a Cheating Case in:

- Semester Project
- Sessional Exam
- Terminal Exam

may result in **F** grade in the course.

Plagiarism in an assignment may result in zero marks in the whole assignments category.

Disciplinary action against attendance proxy cases.



Tentative Evaluation Breakdown

Assignments (4): 10 Abs

Quizzes (6-7): 5 Abs

Sessional – 1: 12.5 Abs

Sessional – 2: 12.5 Abs

Semester Project: 10 Abs

Terminal Exam: 50 Abs



Course Outline

- Introduction to Computer Networks
- Application Layer
- Transport Layer
- Network Layer
- Network Layer Control Plane
- Link Layer
- And much more.



Decimal Number to Binary Number

$$3 = ?$$

$$17 = ?$$

$$89 = ?$$



Binary Number to Decimal Number

$$110110 = ?$$

$$1010011 = ?$$



Decimal Number to Hex ?

11 = ?

19 = ?

114 = ?



Hex to Decimal Number

E = ?

7C = ?

3A1 = ?



Convert Hex to Binary

6EC = ?



IP Address

An IP address is **a unique address that identifies a device on the internet or a local network.**

IP stands for "Internet Protocol," which is the set of rules governing the format of data sent via the internet or local network.

IP v4 = 32 bits.

W . X . Y . Z



Example of IP

192.168.0.1

255.255.255.0



Writing Binary of IP

127 . 0 . 0 . 1 = ?



Binary to IP

00011011 . 10101110. 00000000. 01000111