Discrete Mathematics

Functions

Deck of cards

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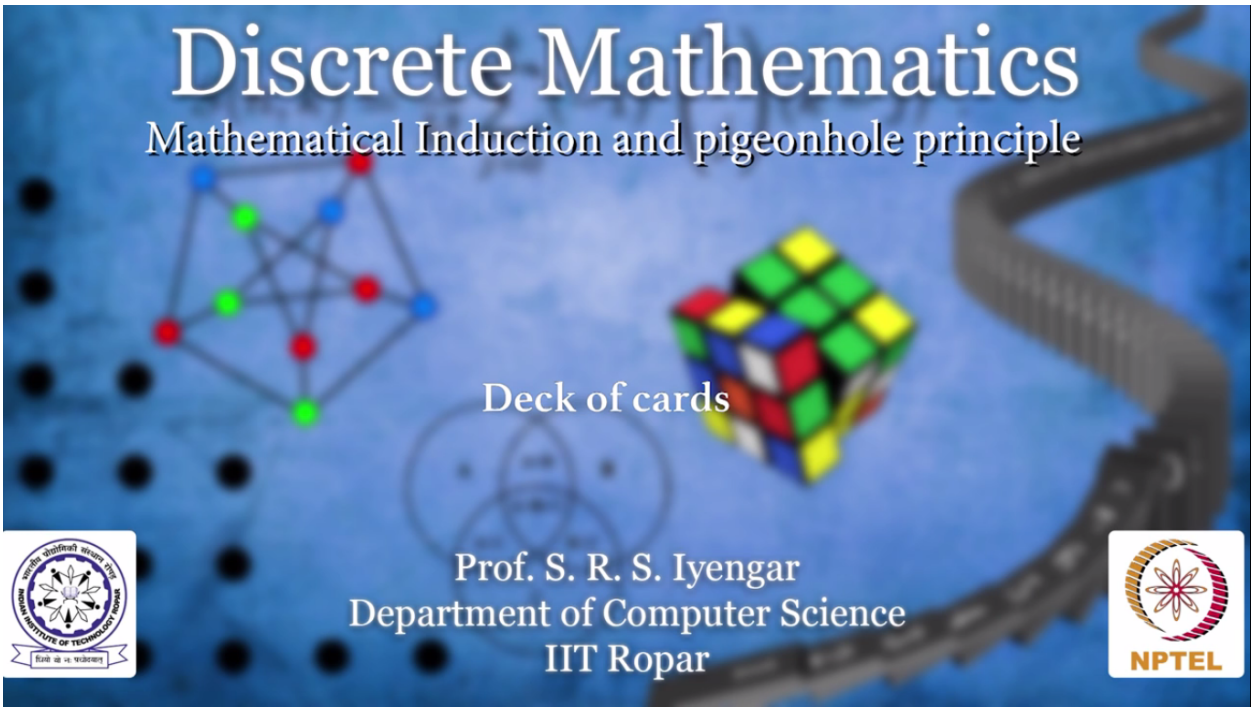
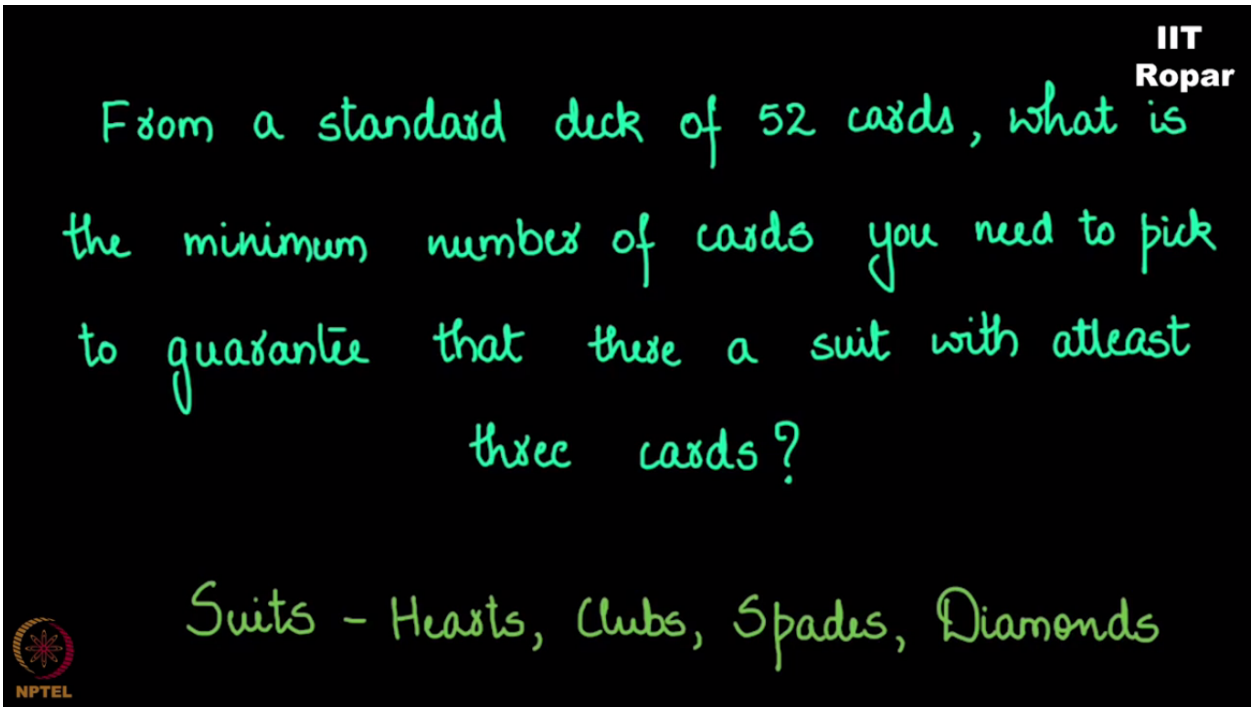


From a standard deck of 52 cards what is the minimum number of cards you need to pick in order to guarantee that there is a suit with at least three cards? The question sounds a little complicated. Let me explain.

So you are given a standard deck of 52 cards. You must be knowing what is deck of 52 cards. Deck is just the bunch of 52 cards. It is called as a deck. So 52 cards are there. And they are divided into 4 suits. Hearts, clubs, spades and diamonds. You must be knowing. Now how many cards do you need to pick such that it guarantees that there are three cards of the same suit? As I mentioned before suits. So you need to have three cards, at least three cards of the same suit. So how many cards do you need to pick up in order to satisfy this condition?



What is that x number of cards you need to pick so that there are at least three cards of the same suit? That is the question. Think about it.