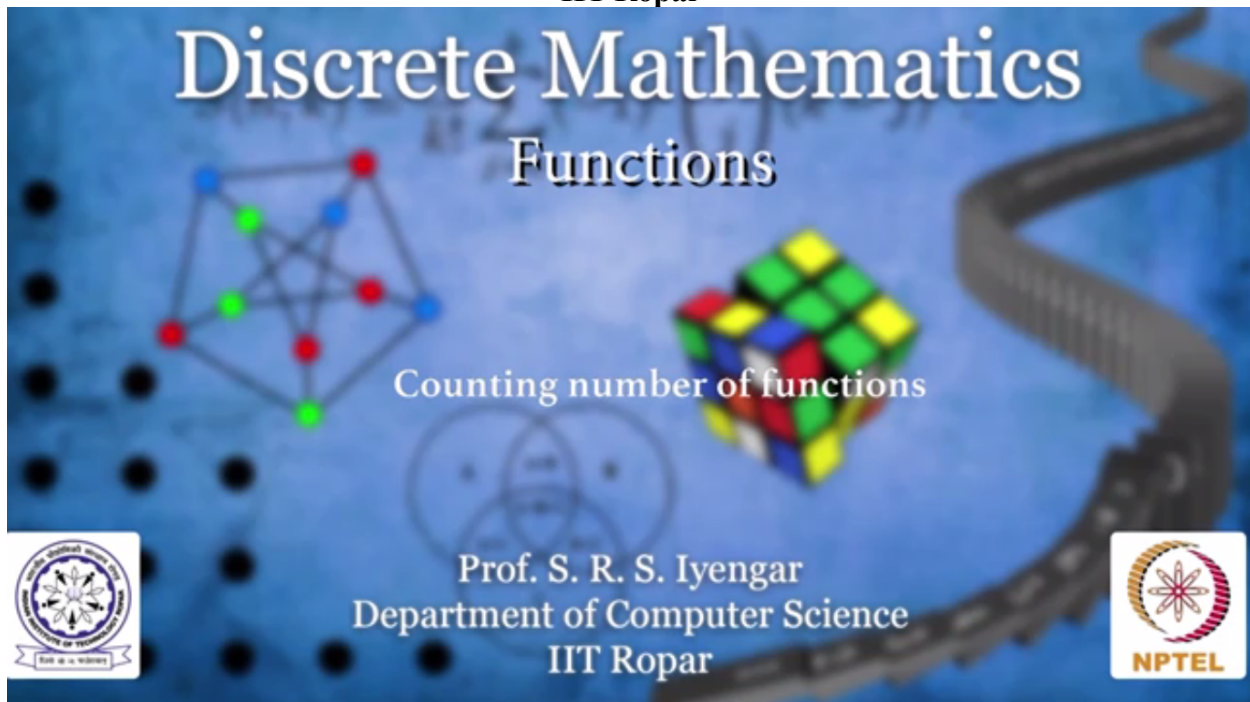


**NPTEL
NPTEL ONLINE COURSE**

**Discrete Mathematics
Functions**

Counting number of functions

**Prof. S. R. S. Iyengar
Department of Computer Science
IIT Ropar**



Counting, counting, counting. We always talk about counting and I'm back again talking about it once more in this chapter. You can easily guess what will be my next question. Can you count the total possible functions from a set A to a set B ? First question.

Second question, can you count all possible one – one functions from A to B ? And natural next question, can you count all possible onto functions from A to B ?

And finally, can you count all possible bijections from A to B ?

IIT Madras Production

Founded by
Department of Higher Education
Ministry of Human Resource Development
Government of India

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