



NPTEL
NPTEL ONLINE COURSE
Discrete Mathematics
Relations
Cartesian Product
With
Prof. S. R. S. Iyengar
Department of Computer Science
IIT Ropar

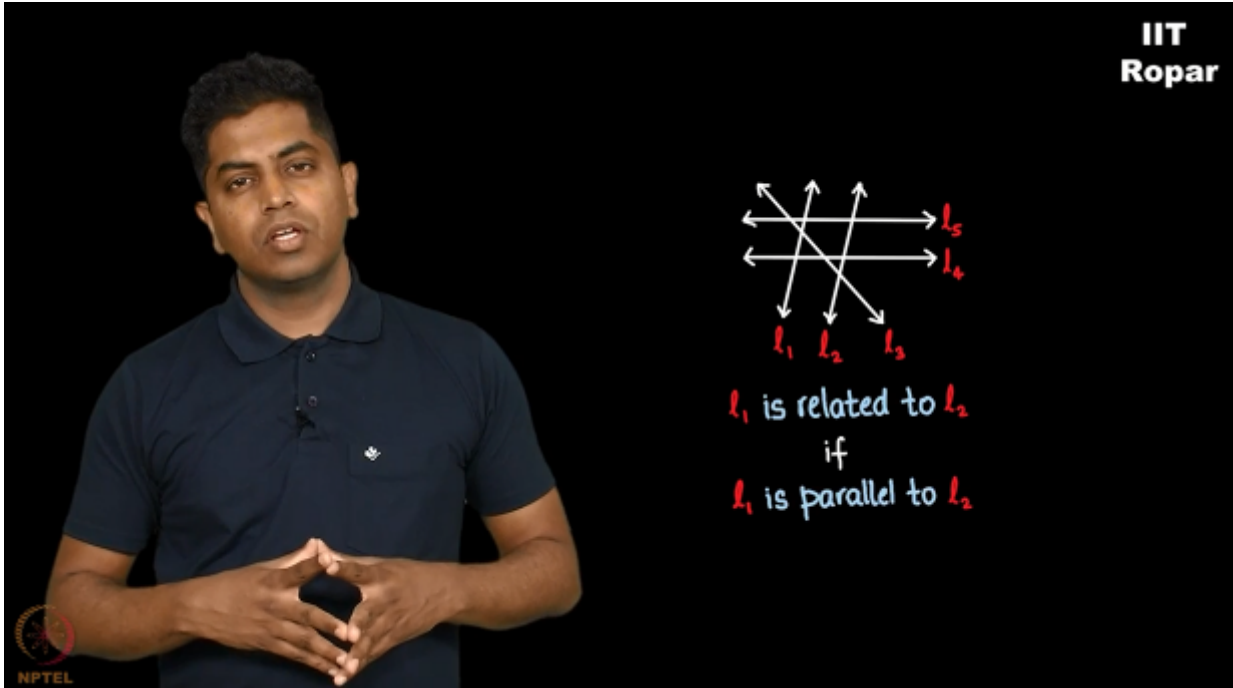
Discrete Mathematics
Relations

Relation - An Example

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

As I told you, these examples may not be always about people and for someone knowing someone else, it can be any abstract entity. I'll give you an example, which will make it clear that things didn't necessarily be as simple as people and who knows whom.



Let's take for example a set S with some five lines L_1, L_2, L_3, L_4 and L_5 . Here I define a relation between line 1 to line 2 if L_1 is parallel to L_2 , so between five of these lines, I will define a relation like this. What's the relation? I put an arrow from L_1 to L_2 if L_1 is parallel to L_2 .

IIT Madras Production

Founded by

Department of Higher Education

Ministry of Human Resource Development

Government of India

www.nptel.iitm.ac.in

Copyright Reserved