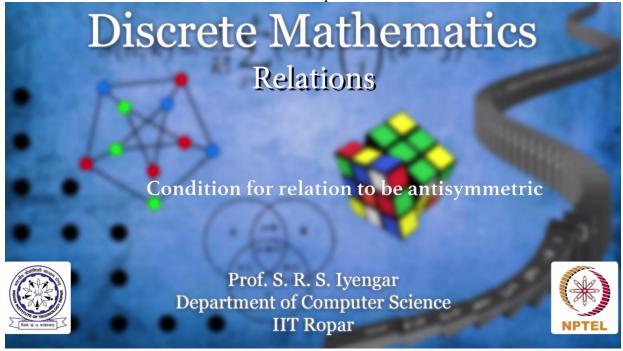
NPTEL NPTEL ONLINE COURSE

Discrete Mathematics Relations Condition for relation to be antisymmetric

With

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



We have been looking at the same question of given a matrix M, how do you say if it's reflexive or not, how do you say if it is symmetric or not. Now we'll ask this question, how do you say that it is antisymmetric or not. What is given to you, the matrix M, you are supposed to tell me whether the matrix corresponds to an antisymmetric relation or not. How do you say that? So let me now tell you this, you figure it out, it's quite obvious and straightforward. So did you figure out? All right, I'll tell you the answer, you just verify whether I am right or wrong. You can check if the matrix M is antisymmetric or not just by checking if $M \cap M^{Tr} \leq I$.

Online Editing and Post Production

Karthik

Ravichandran

Mohanarangan

Sribalaii

Komathi

Vignesh

Mahesh Kumar

Web-Studio Team

Anitha

Bharathi

Catherine

Clifford

Deepthi

Dhivya

Divya

Gayathri

Gokulsekar

Halid

Hemavathy

Jagadeeshwaran

Jayanthi

Kamala

Lakshmipriya

Libin

Madhu

Maria Neeta

Mohana

Mohana Sundari

Muralikrishnan

Nivetha

Parkavi

Poornika

Premkumar

Ragavi

Renuka

Saravanan

Sathya

Shirley

Sorna

Subhash

Suriyaprakash

Vinothini

Executive Producer

Kannan Krishnamurty

NPTEL Coordinator

Prof. Andrew Thangaraj

Prof. Prathap Haridoss

IIT Madras Production

Funded by

Department of Higher Education

Ministry of Human Resource Development

Government of India

www.nptel.ac.in

Copyright Reserved