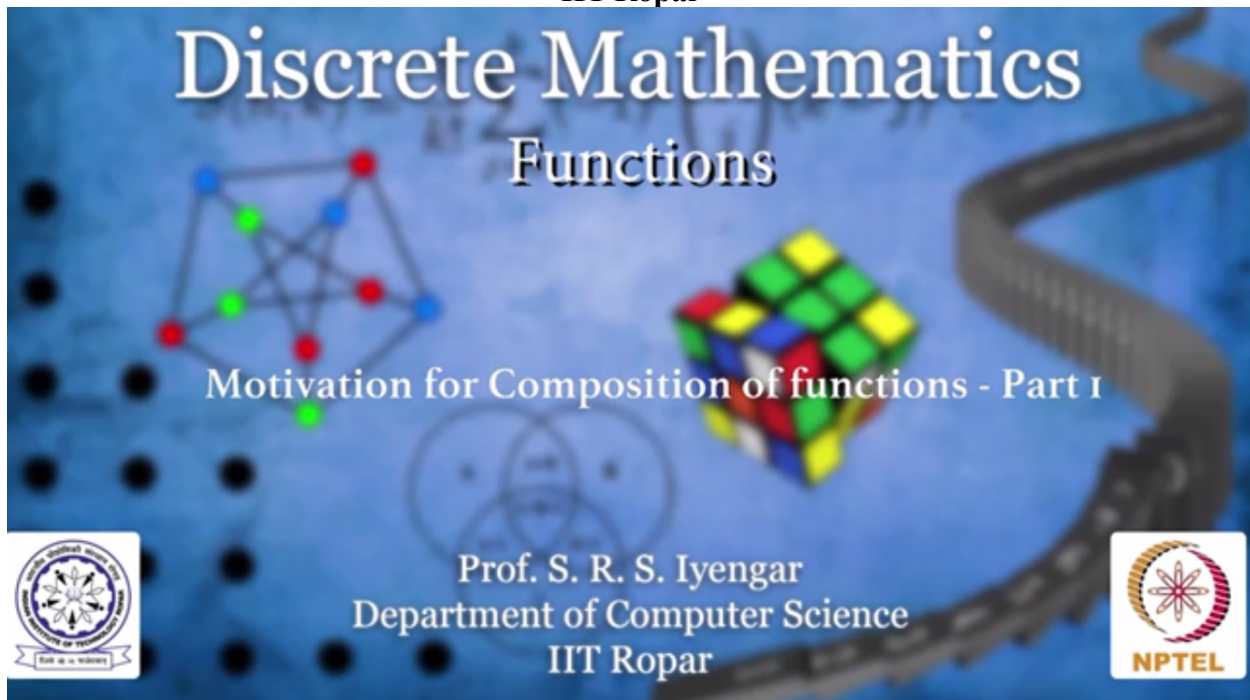


**NPTEL  
NPTEL ONLINE COURSE**

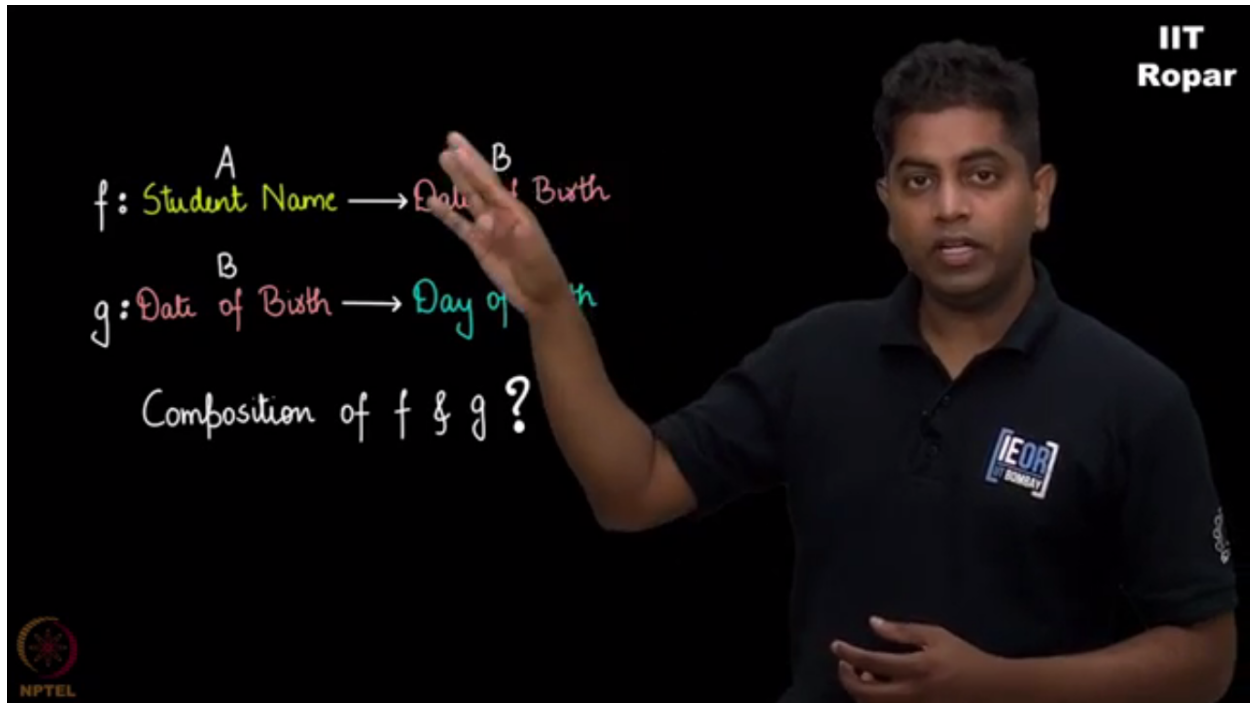
**Discrete Mathematics  
Functions**

**Motivation for Composition of functions - Part 1**

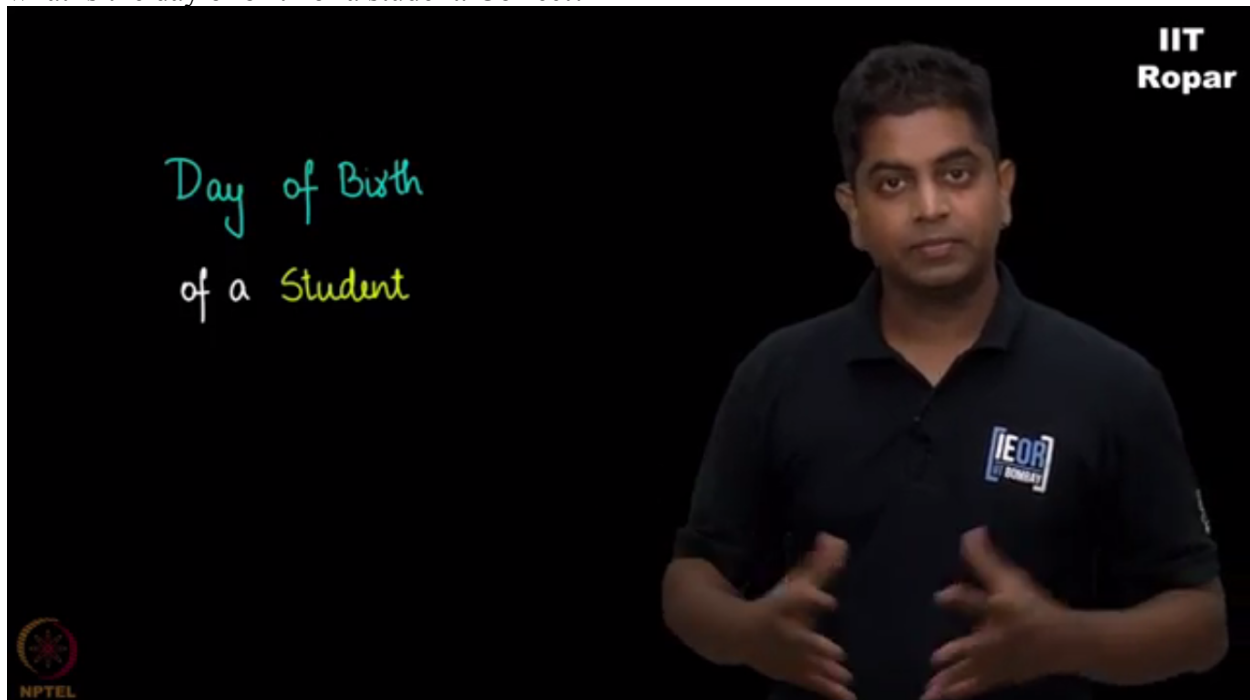
**Prof. S. R. S. Iyengar  
Department of Computer Science  
IIT Ropar**



You see, let's take an example where we have a function  $f$  mapped from student names to their data of births and another function  $g$  mapped from their date of birth to day of birth, Monday or Tuesday or Wednesday whatever.



Now if you see there is a function  $f$  from  $A$  to  $B$  and a function  $g$  from  $B$  to  $C$ . What will you get in case you take a composition, rather a combination of both the functions  $f$  and  $g$ ? You can see what is the day of birth of a student. Correct?



**IIT Madras Production**

Founded by  
Department of Higher Education

Ministry of Human Resource Development  
Government of India

[www.nptel.iitm.ac.in](http://www.nptel.iitm.ac.in)

Copyright Reserved