**NPTEL**

**NPTEL ONLINE CERTIFICATION COURSE**

**Discrete Mathematics**
**Graph Theory - 2**

**Complement of a disconnected graph is connected**

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Complement of a graph sounds such an easy concept you see, but then that's the nice part of graph theory things start very easy but can get very complicated and illustrate one such situation I define what is a complement of a graph. Let me ask you all a question, do you note that when a graph is disconnected, its complement is always connected.
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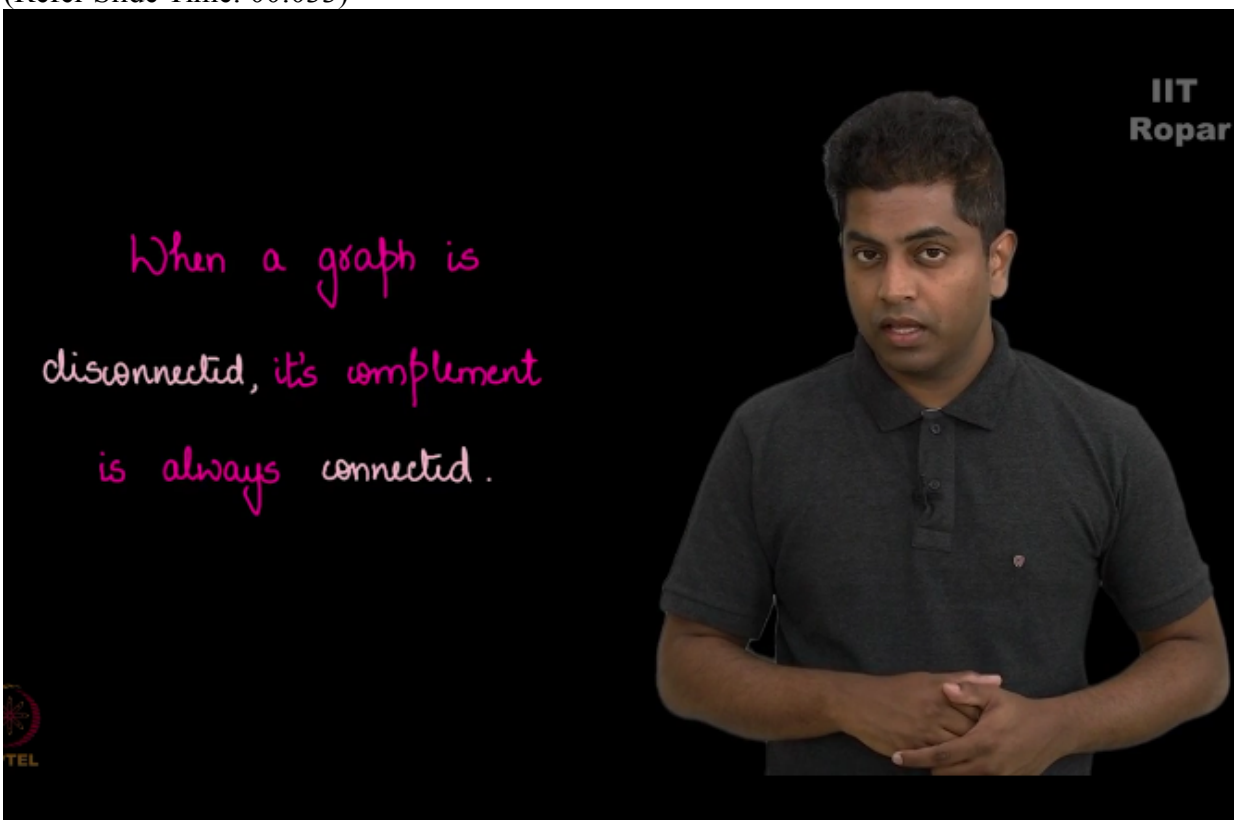


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