



**B.Sc. (Statistics) SEMESTER- VI**

**Paper 1 (Operations Research)**

**Unit 1**

Network analysis: <https://www.youtube.com/live/FF-rLTSynBQ?si=9UtzHcJeLmYbia15>

Forward pass method, backward pass method:

[https://youtu.be/ro6oUyXzuDc?si=\\_NHdJ\\_VLnfBIeTU](https://youtu.be/ro6oUyXzuDc?si=_NHdJ_VLnfBIeTU)

PERT Technique: <https://youtu.be/dOhj0z7uTQQ?si=pwfi1CzvwtttoDM2S>

**Unit 2**

Duality: Primal and dual problem:

[https://youtu.be/H0sBZdjuego?si=i\\_uBAEE0oWjEbW5x](https://youtu.be/H0sBZdjuego?si=i_uBAEE0oWjEbW5x)

Duality: <https://youtu.be/H0sBZdjuego?si=fZ6usxVOCuvtkCSz>

Project crashing: <https://youtu.be/srb6yzbcu80?si=3j8PpJ-TXsmZAzLU>

**Unit 3**

Transportation problem: [https://youtu.be/Ow3XWYnPgSM?si=kkhHI\\_VoJp1MotHe](https://youtu.be/Ow3XWYnPgSM?si=kkhHI_VoJp1MotHe)

Methods of finding initial basic feasible solution:

<https://youtu.be/LWOOoCnSzRY?si=Utg48FoL12fbGvm->

Improving solution. Maximization Transportation problem:

<https://youtu.be/9iGEMmWkthA?si=upCrTxQ6Sc6K6y8a>

**Unit 4**

Assignment problem: <https://youtu.be/I3CNzKUFINY?si=XufBDX3Fd1TkzrTG>

Game Theory: [https://youtu.be/YgqC8\\_WOZyY?si=xNyZUXObJqOsJd-R](https://youtu.be/YgqC8_WOZyY?si=xNyZUXObJqOsJd-R)

Two person zero sum game: [https://youtu.be/MPM\\_KgaXij0?si=Dia8HuBmbkg305-K](https://youtu.be/MPM_KgaXij0?si=Dia8HuBmbkg305-K)