



IIT ROORKEE



NPTEL ONLINE
CERTIFICATION COURSE

SUPPLY CHAIN ANALYTICS

Analytics in Supply Chain Management

Dr. RAJAT AGRAWAL

DEPARTMENT OF MANAGEMENT STUDIES



Supply Chain Analytics

- [Supply chain Analytics](#), plays a key role in enhancing the performance of supply chain by improving supply chain visibility, managing volatility, and reducing fluctuations in cost.



- Visibility of global supply chain and logistic processes
- Managing Demand Volatility
- Cost fluctuations in supply chain

Analytics in Supply Chain

- Moving to Smarter Logistics to improve Supply chain visibility
- Managing volatility through demand and inventory management
- Reducing cost fluctuations by optimizing sourcing and logistics activities



Decision Phases of a Supply Chain

- Supply chain strategy or design
- Supply chain planning
- Supply chain operation



Supply Chain Strategy or Design

- Decisions about the structure of the supply chain and what processes each stage will perform.
- Strategic supply chain decisions:
 - Locations and capacities of facilities
 - Products to be made or stored at various locations
 - Modes of transportation
 - Information systems
- Supply chain design must support strategic objectives.
- Supply chain design decisions are long-term and expensive to reverse – must take into account market uncertainty.



THANK YOU

