

# University of Pretoria Yearbook 2021

## Lean supply chain strategies and systems 780 (BLC 780)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	Faculty of Engineering, Built Environment and Information Technology
<b>Module credits</b>	16.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	24 contact hours
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Industrial and Systems Engineering
<b>Period of presentation</b>	Semester 1 or Semester 2

### Module content

Supply chain executives need to contribute and support long term strategic objectives by providing a competitive edge through an aligned supply chain strategy. The course addresses the impact of lean principles in supply chain management and practical approach to implementing lean thinking and demand driven supply chains. The course provides a framework for the strategic supply chain decisions, both in designing and managing an efficient extended supply chain. The latest innovations, trends and challenges in agile supply chain strategies and systems are reviewed. Team leadership skills are developed through practical applications, approaches and best practices of lean supply chain design and management. Supply chain leadership perspectives will be provided by executives and managers from industry and team-based simulation games.

Course outline:

- Fundamentals of lean management
- Lean Thinking and Supply Chain (SC) management
- Customer Value
- Network design strategies
- Supply Chain Integration and barriers to Integration
- SC performance measurement
- Extended Value Chain and Value Stream Mapping
- Eliminating Waste in the Supply Chain
- Applying Lean Principles to Supply Chain Operations
- Inventory positioning approaches
- Operational Executive Problems
- A3 Performance Management



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