

# University of Pretoria Yearbook 2021

## Supply chain information and decision technology 780 (BCI 780)

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| <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

Information technology is an important enabler of effective supply chain management, typically spanning the extended value chain from suppliers to customers. The timeliness and availability of relevant information are critical when applying supply chain strategies that increase service levels of and reduce cost and lead times. Value-added IT-based services are increasingly used to differentiate and develop relationships with customers. The objective of the course is to develop a sound understanding of components and priorities IT investment to enable supply chain integration and efficiency, the impact of business process change on IT implementation and selection of decision support systems.

- The Value of Information
- Leveraging Financial Information
- Advanced Supply Chain Planning and Execution
- Decision Support Systems
- IT Capabilities for Supply Chain Excellence
- Enterprise Resource Planning Systems
- Advanced Planning and Scheduling Systems
- Identification Technology
- Integrating Supply Chain IT

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