

SPARE PARTS OPTIMIZATION

Scope:

The aim of this course is to give the course attendees an understanding of analytical models and techniques for spare parts optimisation. Special focus is placed on OPUS10 but also other models are addressed. The mathematical theory on which spare parts optimization models are built is explained and justified. Furthermore, algorithms and methods used for solving resulting optimization problems are presented.

Contents:

- introduction to mathematical modeling and optimization
- introduction to support systems
- spare parts optimization – background, aims and objectives
- mathematical modeling and optimization methods for
 - repairable items (LRU/SRU)
 - discardable items (DU/DP)
 - partially repairable items (PRU/SPRU)
- practical exercises on parts of the course material

Prerequisites:

Good understanding of mathematics in general and probability in particular.

Course length:

2 days

Lecturer:

Patrik Alfredsson, PhD
Systecon AB
Box 5205
102 45 Stockholm, Sweden
Tel: +46 8 4590769
Fax: +46 8 4590780