



**Poseidon House
Castle Park
Cambridge CB3 0RD
United Kingdom**

TELEPHONE:
INTERNATIONAL:
FAX:
E-MAIL:

**Cambridge (01223) 515010
+44 1223 515010
+44 1223 359779
apm@ansa.co.uk**

Training

ANSAwise - Welcome [CNET, to Introduction to Design of Distributed Systems]

Chris Mayers

Abstract

This is the 'welcome speech' to the course "Introduction to Design of Distributed Systems", developed for CNET. It gives the course roadmap and timetable.

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Welcome to

Introduction to Design of Distributed Systems

Chris Mayers (apm@ansa.co.uk)



About this course

- *This is an introduction to open distributed systems technology*
 - focused on the CORBA specifications from the Object Management Group
- *It explains the main issues, the problems and the extent of current solutions, and the terminology you'll need to grasp*



Course Timetable - Day 1

Module
<i>Welcome</i>
Introduction to Distributed Systems
Distributed and Networked Operating Systems
<i>Break</i>
Templates for Distributed Applications
<i>Lunch</i>
The Computational Model
Structuring Distributed Applications
<i>Break</i>
Trading in Distributed Systems
<i>Close</i>



Course Timetable - Day 2

Module
<i>Welcome</i>
Specifying Services for Distributed Systems
Designing Applications with CORBA
<i>Break</i>
CORBA Object Services
<i>Lunch</i>
Transactions in Distributed Systems
Object-Oriented Methods for Distributed Systems
<i>Break</i>
Management of Distributed Networks
Course Roundup
<i>Close</i>



Structure of the course - 1

- ***Introduction to Distributed Systems***
 - what effects does business change have on information systems?
 - what are the benefits of distributed systems?
- ***Distributed and Networked Operating Systems***
 - what have been the trends in operating systems?
 - how do these enable or inhibit the deployment of client/server systems?
- ***Templates for Distributed Applications***
 - what approaches are there for partitioning client/server applications into components?
 - what are the strengths and weaknesses of each approach?



Structure of the course - 2

- ***The Computational Model***
 - what are the concepts of the ODP Computational Model?
 - what rules apply to the Computational Model?
- ***Structuring Distributed Applications***
 - how should objects be grouped in distributed applications?
 - how may this affect application performance?
- ***Trading and Federation***
 - how can clients find servers that provide the services that they need?
 - what criteria can be used to guide this process?



Structure of the course - 3

- ***Specifying Services in CORBA IDL***
 - what is the CORBA Interface Definition Language?
 - how is CORBA IDL used?
 - what are the basic features of CORBA IDL?
- ***Designing Applications with CORBA***
 - what has to be considered when designing CORBA services?
 - what facilities does CORBA provide to help this?
 - what is the structure of the Object Request Broker (ORB)?
- ***CORBA Object Services***
 - what are the functions of CORBA Object Services?
 - which Object Services are being specified?
 - when should each Object Service be used?



Structure of the course - 4

- ***Transactions in Distributed Systems***
 - how do database transactions integrate with distributed systems?
 - what standards are there for transaction services?
 - how does the CORBA Transaction service relate to these standards?
- ***Object-Oriented Methods for Distributed Systems***
 - how can object-oriented analysis and design methods help?
 - what are the limitations of these methods?
 - what is a feasible combined approach?
- ***Management of Distributed Networks***
 - what are the key open management frameworks?
 - what facilities do these provide?
 - how can these frameworks assist the management of applications?



Enjoy the course!

- *... and ask questions whenever you wish*

