

INFS 3204/7204

Service-Oriented Architecture



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ITEE, UQ
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M10: Term Review

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Week Number	Lecture Number	Lecture Topic
1	M1	Introduction to Web Service & SOA
2	M2	EAI and B2B interaction: the business case for SOA
3	M3	.NET basic: Programming Environment, Languages, C#
5	M4	.NET advance: ADO.NET, ASP.NET, Web form, etc
6	M5	Web Service basic: SOAP, WSDL, UDDI, etc
7	M6	Web Service advance: Composition & Orchestration
8	M7	SOA Development
9		Guest Lecture
10	M8	Work Flow
11	M9	Semantic Web Service
12		Project Demonstration
13	M10	Course review

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M1 Topics

- **SOA**
- **Web Service**
- **Business and technical motivation**

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M2 Topics

- **Supply China, EAI, B2B, B2C, EDI, business logic**, workflow management
- Integration
 - Middleware
 - Web service
- Web 2.0, Mashup, and SOA 2.0

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M3 Topics

- .NET Basics
 - Fundamentals
 - Platform
 - **Framework**
 - Environments
 - Window forms
 - Web forms
- **C#**
 - **Basic syntax**

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M4 Topics

- .NET advances
 - ADO.NET
 - **ASP.NET**
 - **Web Forms**
 - Web Services
 - XML in .NET

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M5 Topics

- WS Basics
 - **Basic concepts**
 - Deploying web services - 4 phases
 - **Web service stack**
 - SOAP
 - Purpose, message structure, **how it works**, etc.
 - WSDL
 - Purpose, schema, delineation, etc.
 - UDDI
 - Purpose, schema, information model, etc.

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M6 Topics

- WS Advances
 - **Composition**
 - Composition middleware
 - Limits of conventional composition
 - **Composition Models**
 - **Orchestration**
 - **Activity diagram**
 - Statecharts
 - Petri Nets
 - Activity Hierarchy
 - **Choreography**
 - A travel example

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M7 Topics

- SOA development:
 - **Basic Concepts**
 - **Development of a SOA**
 - **Analysis**
 - **Design**
 - Implementation
 - Industrial standards

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Guest Lecture

- Not examined

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M8 Topics

- Not Examined

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M9 Topics

- Semantic Web Service:
 - **Concepts**
 - **RDF**
 - **Ontology**
 - **Semantic WS**

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Exam

- Total 50 marks
- Total 9 short questions
- Roughly
 - 50% on concepts,
 - 30% on understanding
 - 20% on application

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Exam

- **Close book**
- When:
 - 19/11, 8:00AM
- Where:
 - St Leo's College-Boardroom

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Assessment of this course

- On-hand experiences and skills on building web applications by SOA
 - Prac – 15%
 - Projects – 35% (+5% bonus)
- Concepts and understanding
 - Exam – 50%
 - To be prepared:
 - Lecture notes
 - Previous year papers

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Your grade

- Total marks
 - 15%+35%+5%+50%=105%

- Grade

Total mark	85-100	75-84	65-74	50-64	45-49	20-44	0-19
Grade	7	6	5	4	3	2	1

- **Not percentage based**

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Consultation

- Drop me an email
- Pass by my office
- New groups
- Course websites
- Check your pracs and projects by end of this week for any error correction

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Where to go from here?

- Other study
 - Large scale project like final year project?
- Research
 - PhD or master?
- Job
 - Software (SAP, Microsoft, IBM, Oracle, etc)
 - Finance (Banks, insurance, ebay, etc.)
 - Start-up (web/online service/system)

ALL, GOOD LUCK!

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