

BIRKBECK COLLEGE
University of London

a. Module Specification

Module number	
/	/
(For Registry Use)	

1. Faculty	2. School	3. Degree(s) of which the module forms part
Social Science	Computer Science and Information Systems	MSc in E-Commerce

4. Module title
Component Technologies

5. Module value	6. Date from which the module will operate	7. Number of students per intake
1 unit	Jan 2002	Maximum: 30 Minimum: 5

8. Pre-requisites and co-requisites to the module
Merit in Year 1 of the MSc (equivalent to Postgraduate Diploma in E-Commerce with Merit), or equivalent AND The Object Oriented Programming module of this course.

9. Does the module supersede an existing module?
<p>XX/No</p> <p>If Yes please specify giving superseded module(s) name and number and the reason for replacement</p>

10. Main aims of the module
<p>The objective of this course is for students to gain a working knowledge and experience with the modular technologies that underpin the construction of centralized and distributed applications using software components and middleware.</p>

11. Learning outcomes

<p>Knowledge and understanding in the context of the subject</p> <p>How, and when, to apply n-tier application architectures utilizing a variety of reusable components.</p> <p>Cognitive skills</p> <p>Reasonable skill expectancy - true expertise in any one technology takes months to accumulate, like any topic. So like other courses, competency is our objective.</p> <p>Synthesis of various information sources - The course covers a wide range of topics; if one had to read the literature on all these topics it would take very long time indeed. The student will learn to apply a critical eye to various materials with the objective of removing the hype to extract coherent explanations of the core ideas.</p>	<p>Subject-specific practical/professional skills</p> <p>Topics to be covered include: Java Swing, applets, Java Beans, ActiveX, Microsoft's COM and DCOM, Windows 2000 COM+, OLE Automation, CORBA, and Enterprise Java Beans. Trends in future component concepts and technology development will also be discussed.</p> <p>General/transferrable skills (including key skills)</p> <p>The organisation, management and implementation of complex software architectures.</p>
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12. Module structure, syllabus and assessment method

<p>One Term Course (11 weeks in Jan-Mar).</p> <ol style="list-style-type: none">1. Introduction2. Software Design Patterns3. N-tier Application Architectures4. Java Beans5. ActiveX6. Microsoft's Component Object Model (COM/DCOM)7. Middle Ware8. CORBA9. Enterprise Java Beans10. .NET Architecture <p>Assessment via examination and coursework.</p>
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13. Workload

<p>Indicate the number of hours the student will spend in:</p>	
<p>Lectures: 20</p>	<p>Field Work:</p>
<p>Seminars:</p>	<p>Project Work: 10 (Coursework)</p>
<p>Tutorials:</p>	<p>Laboratories: 10</p>

b. Resources Specification

1. Teaching staff required		
Name	Department	% of total teaching
K L Mannock	Computer Science and Information Systems	100%

2. Additional resources required	
Accommodation	
Small lecture room within the School of Computer Science and Information Systems. Computer room within School of Computer Science and Information Systems.	
Library	
Have you discussed library provision for the course with your subject librarian? Yes / XX	
Other Library Resources required e.g. computing, a-v equipment. None.	
Computing	
Have you discussed any requirements for the use of specific software packages with CCS technical support staff? Yes / No	
CCS	
Department	
Part-time teaching	Nil
Other	Nil

3. Reading list

a) Books of which students are expected to own copies

A full set of course notes will be provided for each student.

b) Books for which a high level of duplication within the library will be needed

None.

c) Other suggested reading

Client/Server Survival Guide (Third Ed) by Robert Orfali, Dan Harkey, Jeri Edwards (1999) John Wiley and Sons; ISBN: 0471316156

Enterprise Application Integration by David Linthicum (1999) Longman Higher Education; ISBN: 0201615835

Designing Enterprise Applications with the Java(tm) 2 Platform, Enterprise Edition; Nicholas Kassem, Enterprise Team (Eds) (2000) Addison-Wesley Longman; ISBN: 0201702770

4. Recommendations

AGREEMENT

Dean of Faculty _____ Date _____

Head of School _____ Date _____

Librarian _____ Date _____

Comments _____

CCS Manager _____ Date _____

Comments _____

CLOSING DATE: 1 FEBRUARY PRECEDING THE SESSION IN WHICH TEACHING WOULD BEGIN. YOU MUST ALSO OBTAIN **ALL** OF THE ABOVE SIGNATURES BEFORE YOU SUBMIT THE FORM.

On completion please return to the Dr Brian Harwood, Registrar.