ITEC601
Enterprise Systems Integration
S2 Day 2018
Dept of Computing

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# General Information

<table>
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<tr>
<th>Unit convenor and teaching staff</th>
<th>Convenor, Lecturer</th>
<th>Dr. Peter Busch</th>
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<td><a href="mailto:peter.busch@mq.edu.au">peter.busch@mq.edu.au</a></td>
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<td>Contact via 9850 9520</td>
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<tr>
<td>Lecturer</td>
<td>Dr. Guanfeng Liu</td>
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<td><a href="mailto:guanfeng.liu@mq.edu.au">guanfeng.liu@mq.edu.au</a></td>
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<tr>
<td>Practical Demonstrator</td>
<td>Adnan Mahmood</td>
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<td><a href="mailto:adnan.mahmood@mq.edu.au">adnan.mahmood@mq.edu.au</a></td>
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<th>Credit points</th>
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## Prerequisites

Admission to MInfoTech or MEng or MSc

## Corequisites

Co-badged status
ISYS301
Unit description
This unit aims to provide an understanding of how information systems can be integrated into the overall business layer of an organisation. The unit focuses on methods and techniques to enhance the alignment of information systems with business strategy, objectives and processes. Issues covered include: process modelling, corporate modelling, workflow modelling, business process re-engineering, enterprise resource planning, business-to-business integration and supply chain management. Various technical approaches to tackling integration problems are discussed.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at https://students.mq.edu.au/important-dates

Learning Outcomes
1. Ability to acquire knowledge needed to integrate new systems and processes of an organisation
2. Competence in IT strategic planning.
3. Ability to use various modelling techniques to describe information flows and processes in an organisation.
4. Competence in XML (eXtensible Markup Language) to web enable business applications.
5. Competence in Web Services Description Language (WSDL) and Business Process Execution Language (BPEL).

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
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<tbody>
<tr>
<td>Assignment 1</td>
<td>10%</td>
<td>No</td>
<td>15th August 2018</td>
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<tr>
<td>Assignment 2</td>
<td>10%</td>
<td>No</td>
<td>10th September 2018</td>
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<tr>
<td>Assignment 3</td>
<td>20%</td>
<td>No</td>
<td>26th October 2018</td>
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<tr>
<td>Assignment 4</td>
<td>10%</td>
<td>No</td>
<td>9th November 2018</td>
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<tr>
<td>Exam</td>
<td>50%</td>
<td>Yes</td>
<td>12/11 - 30/11 2018</td>
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</table>

Assignment 1
Due: 15th August 2018
Weighting: 10%
A report on eBusiness principles

This Assessment Task relates to the following Learning Outcomes:
- Ability to acquire knowledge needed integrate new systems and processes of an organisation
- Competence in IT strategic planning.

Assignment 2
Due: 10th September 2018
Weighting: 10%

Business Process Modelling

This Assessment Task relates to the following Learning Outcomes:
- Ability to acquire knowledge needed integrate new systems and processes of an organisation
- Ability to use various modelling techniques to describe information flows and processes in an organisation.

Assignment 3
Due: 26th October 2018
Weighting: 20%

Group assignment implementing eBusiness solution. These will be peer moderated and marks assigned individually within the group. Groups will be self-selecting.

This Assessment Task relates to the following Learning Outcomes:
- Ability to acquire knowledge needed integrate new systems and processes of an organisation
- Ability to use various modelling techniques to describe information flows and processes in an organisation.
- Competence in XML (eXtensible Markup Language) to web enable business applications.
- Competence in Web Services Description Language (WSDL) and Business Process Execution Language (BPEL).

Assignment 4
Due: 9th November 2018
Weighting: 10%
A report on enterprise systems integration in an organisation of the student's choosing - drawing on the material covered over the entire semester.

This Assessment Task relates to the following Learning Outcomes:

- Ability to acquire knowledge needed integrate new systems and processes of an organisation

Exam

Due: 12/11 - 30/11 2018
Weighting: 50%

This is a hurdle assessment task (see assessment policy for more information on hurdle assessment tasks)

The final examination in this unit is a hurdle requirement. You must get a mark of at least 40% in the examination to pass the unit. If you get a mark of at least 30% in your first attempt at the final examination you will be given a second and final attempt.

Supplementary Exams

If you receive special consideration for the final exam, a supplementary exam will be scheduled in the week of December 17-21 2018. By making a special consideration application for the final exam you are declaring yourself available for a resit during the supplementary examination period and will not be eligible for a second special consideration approval based on pre-existing commitments. Please ensure you are familiar with the policy prior to submitting an application. Approved applicants will receive an individual notification one week prior to the exam with the exact date and time of their supplementary examination.

If you are given a second opportunity to sit the final examination as a result of failing to meet the minimum mark required, you will be offered that chance during the same supplementary examination period and will be notified of the exact day and time after the publication of final results for the unit.

This Assessment Task relates to the following Learning Outcomes:

- Ability to acquire knowledge needed integrate new systems and processes of an organisation
- Competence in IT strategic planning.
- Ability to use various modelling techniques to describe information flows and processes in an organisation.
- Competence in XML (eXtensible Markup Language) to web enable business applications.
- Competence in Web Services Description Language (WSDL) and Business Process Execution Language (BPEL).
Delivery and Resources

CLASSES
Each week you should attend three hours of lectures. The two hours on the Tuesday will be standard lecture format. The third hour of lecture on the Wednesday will act as a tutorial. There will also be a practical class covering the technology - modelling tools, XML etc..

For details of days, times and rooms consult the timetables webpage.

Note that the practical classes commence in week 2.

You should have selected a practical class enrollment. It will not particularly matter if you do not attend the practical you are enrolled in as practical attendance is not compulsory, but should be useful to you. If you do not have a class, or if you wish to change one, you should see the enrollment operators in the E7B courtyard during the first two weeks of the semester. Thereafter you should go to the Student Centre.

REQUIRED AND RECOMMENDED TEXTS AND/OR MATERIALS

Textbook
The textbook for ITEC601 this semester is:

- Papazoglou, M., Ribbers, P., (2006) *e-Business: Organizational and Technical Foundations* John Wiley & Sons Ltd. Chichester West Sussex U.K. There is also a companion website by the publisher at www.wiley.com. This site contains links to example material and more.

There are a few more books you may wish to acquire, these are not compulsory but potentially helpful.


UNIT WEBPAGE AND TECHNOLOGY USED AND REQUIRED

*echo360*
Digital recordings of lectures are available. Read instructions here.

Technology
Technology used will include IBM BP Modeller, Adonis etc. Students are also expected to make
use of MS Word, MS Excel and MS Powerpoint and editing software to undertake XML and BPEL.

**Discussion Boards**

When groups are chosen for the group assignment, you will have the opportunity to discuss issues amongst yourselves on iLearn.

**Unit Schedule**

<table>
<thead>
<tr>
<th>1</th>
<th>(Peter)</th>
<th>Week starts 30/7</th>
<th>World of eBusiness</th>
<th>Background to eBusiness</th>
<th>No practical</th>
<th>Papazoglou and Ribbers chapters 1, 2</th>
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<tr>
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<td></td>
<td>eBusiness strategy</td>
<td>eBusiness strategy</td>
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<td>- What is eBusiness strategy</td>
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<td>- Strategic positioning</td>
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<td>- Level of eBusiness strategy</td>
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<td>- Strategic alignment</td>
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<td>2</td>
<td>(Peter)</td>
<td>6/8</td>
<td>Business models</td>
<td>eBusiness models</td>
<td>Introduction to modelling</td>
<td>Papazoglou and Ribbers chapter 3, 4</td>
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<td>eBusiness Relationships</td>
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<td>- Pressures forcing business changes</td>
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<td>- Classifications of business models</td>
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<td>eBusiness Relationships</td>
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<td>(Peter)</td>
<td>13/8</td>
<td>Governance Structures</td>
<td>Governance structures</td>
<td>Assignment 1 (10%)</td>
<td>Papazoglou and Ribbers chapter 5, 12</td>
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<td>Business process modeling</td>
<td>Business process modelling</td>
<td>due 15th August</td>
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<td>- Business process modelling methodologies</td>
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<td>- Supply chain operations reference (SCOR) model</td>
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<td>- Model driven architecture (MDA)</td>
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<td>- Business process modelling notation (BPMN)</td>
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<td>20/8</td>
<td>eBusiness Technological Infrastructure</td>
<td>Technology infrastructure</td>
<td>Modelling exercise</td>
<td>Papazoglou and Ribbers chapter 6</td>
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<td>5</td>
<td>27/8</td>
<td>Knowledge Management</td>
<td>Recorded lecture&lt;br&gt;Professionals Australia guest lecture 29/8</td>
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<td>Assignment preparation&lt;br&gt;Busch (2008)</td>
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<td>6</td>
<td>3/9</td>
<td>Revision weeks 1-6</td>
<td>Introduction to XML</td>
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<td>7</td>
<td>10/9</td>
<td>XML EDI and Middleware</td>
<td>XML, EDI and middleware&lt;br&gt;XML&lt;br&gt;Assignment 2 (20%) due 10th September</td>
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<td>Papazoglou and Ribbers chapters 7, 14</td>
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<td>Mid Semester Break: 15/9 - 1/10</td>
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<td>8</td>
<td>2/10</td>
<td>Loosely coupled eBusiness solutions</td>
<td>eBusiness solutions&lt;br&gt;XML, Middleware&lt;br&gt;Papazoglou and Ribbers chapter 19</td>
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<td>9</td>
<td>8/10</td>
<td>Workflow systems</td>
<td>Workflow solutions&lt;br&gt;Business solutions, Workflow systems&lt;br&gt;Papazoglou and Ribbers chapters 18</td>
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<td>15/10</td>
<td>Enterprise Application Integration (EAI)</td>
<td>EAI&lt;br&gt;Assignment work&lt;br&gt;Papazoglou and Ribbers chapter 17</td>
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<td>11</td>
<td>22/10</td>
<td>Leverage legacy applications</td>
<td>Legacy applications&lt;br&gt;Group assignment (20%) due 26th October&lt;br&gt;Papazoglou and Ribbers chapter 16</td>
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Learning and Teaching Activities

Lectures 1 and 2
Covers lecture material every week

Lecture 3
Covers tutorial material every week

Practical
Covers practical components of the course in the computer labs

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- Academic Appeals Policy
- Academic Integrity Policy
- Academic Progression Policy
- Assessment Policy
- Fitness to Practice Procedure
- Grade Appeal Policy
- Complaint Management Procedure for Students and Members of the Public
- Special Consideration Policy (Note: The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.)

Undergraduate students seeking more policy resources can visit the Student Policy Gateway (https://students.mq.edu.au/support/study/student-policy-gateway). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.
If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central).

**Student Code of Conduct**

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/study/getting-started/student-conduct

**Results**

Results shown in iLearn, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au.

**Late Assignment Submission policy:** Late work will be accepted with a penalty of 10% of the marks for the assignment per day submitted late. Hence, an assignment submitted five days late will get at most half the marks. If you cannot submit on time because of illness or other circumstances, please contact the lecturer before the due date.

**Student Support**

Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

**Learning Skills**

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

- Workshops
- StudyWise
- Academic Integrity Module for Students
- Ask a Learning Adviser

**Student Enquiry Service**

For all student enquiries, visit Student Connect at ask.mq.edu.au

**Equity Support**

Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

**IT Help**

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University’s IT, you must adhere to the Acceptable Use of IT Resources Policy. The policy applies to all who connect to the MQ network including students.
Graduate Capabilities

Discipline Specific Knowledge and Skills

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

Learning outcomes

• Competence in IT strategic planning.
• Ability to use various modelling techniques to describe information flows and processes in an organisation.
• Competence in XML (eXtensible Markup Language) to web enable business applications.
• Competence in Web Services Description Language (WSDL) and Business Process Execution Language (BPEL).

Assessment tasks

• Assignment 2
• Assignment 3
• Exam

Learning and teaching activities

• Covers lecture material every week
• Covers tutorial material every week
• Covers practical components of the course in the computer labs

Problem Solving and Research Capability

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:
Learning outcomes

• Competence in IT strategic planning.
• Ability to use various modelling techniques to describe information flows and processes in an organisation.
• Competence in XML (eXtensible Markup Language) to web enable business applications.

Assessment tasks

• Assignment 2
• Assignment 3
• Assignment 4
• Exam

Learning and teaching activities

• Covers tutorial material every week
• Covers practical components of the course in the computer labs

Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

Learning outcome

• Competence in IT strategic planning.

Assessment tasks

• Assignment 1
• Assignment 3
• Exam

Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:
Learning outcome

• Competence in IT strategic planning.

Assessment tasks

• Assignment 3
• Assignment 4
• Exam

Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

Learning outcome

• Ability to acquire knowledge needed integrate new systems and processes of an organisation

Assessment task

• Assignment 4

Learning and teaching activity

• Covers lecture material every week

Socially and Environmentally Active and Responsible

We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active participants in moving society towards sustainability.

This graduate capability is supported by:

Learning outcome

• Ability to acquire knowledge needed integrate new systems and processes of an organisation

Assessment task

• Assignment 4
Learning and teaching activity

- Covers lecture material every week

Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

Learning outcomes

- Ability to acquire knowledge needed integrate new systems and processes of an organisation
- Competence in IT strategic planning.

Assessment tasks

- Assignment 1
- Assignment 3
- Assignment 4
- Exam

Learning and teaching activities

- Covers tutorial material every week

Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

Learning outcomes

- Ability to acquire knowledge needed integrate new systems and processes of an organisation
- Competence in IT strategic planning.
- Competence in Web Services Description Language (WSDL) and Business Process Execution Language (BPEL).
Assessment tasks

• Assignment 2
• Assignment 3
• Assignment 4
• Exam

Learning and teaching activities

• Covers lecture material every week
• Covers tutorial material every week
• Covers practical components of the course in the computer labs

Commitment to Continuous Learning

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

Learning outcomes

• Ability to acquire knowledge needed integrate new systems and processes of an organisation
• Competence in IT strategic planning.
• Ability to use various modelling techniques to describe information flows and processes in an organisation.
• Competence in XML (eXtensible Markup Language) to web enable business applications.
• Competence in Web Services Description Language (WSDL) and Business Process Execution Language (BPEL).

Learning and teaching activities

• Covers lecture material every week

Changes from Previous Offering

Peter will teach in weeks 1-6. Guanfeng replaces Jian this year and will teach weeks 6-12.

The 5% assessment mark for the group project brief has disappeared to simplify the marking process. The group project weighting still remains at 20%. Group assignments are not necessarily popular with students but the ACS is keen on variations of group assessment.
At the same time the first individual report is now worth 10% (up from 5% in 2016), better reflecting the effort students put on their initial assignment for the course. The 10% weighting for this assignment is now the same as for ISYS301 students.

Where ITEC601 differs (being 4 credit points) is the extra final report (10%) due in week 13, drawing upon concepts covered over the whole semester.

**Grading**

**Standards**

Four standards, namely HD, D, CR, P summarize as many different levels of achievement. Each standard is precisely defined to help students know what kind of performance is expected to deserve a certain mark. The standards corresponding to the learning outcomes of this unit are given below:

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## Criteria for L.O. #2

| Undertaking SWOT analysis | A limited understanding of what SWOT is and how it works, perhaps making a few simple mistakes | Competent analysis of SWOT for a given organisation listing a few each of S, W, O and T factors | Good SWOT analysis, with some recourse to the literature providing similar examples in the case of other organisations | Outstanding SWOT analysis with comprehensive recourse to the literature |

## Criteria for L.O. #3

| Using modelling software | Limited use of BP Modeller showing some understanding of the tool | Competent use of BP Modeller showing understanding of the software and ability to use it effectively, perhaps making some basic mistakes | Good understanding of the software, modelling workflows proficiently and using tool appropriately without any significant mistakes | Excellent understanding of the software, modelling workflows proficiently and using tool appropriately at an expert level |

## Criteria for L.O. #4

| Understanding how use of code such as XML will enable ecommerce | Limited understanding of what XML actually is and does, however showing some understanding of how XML enables ecommerce | Competent understanding of XML, limited recourse to the literature, perhaps just relying on the textbook or lecture notes | Good understanding of the role of XML, with some recourse to examples in the literature, beyond just knowledge of XML from the lecture notes | Outstanding understanding of the role XML plays, with comprehensive recourse to the literature providing further examples beyond what was asked for in the assignment |
competence in XML | basic competence in coding, shows obvious and basic mistakes in coding
---|---
proficient but perhaps inefficient coding in XML, still displaying some mistakes, parameters names obtuse and commenting limited
proficient coding in XML, perhaps a few trivial mistakes still in evidence, but generally codes quite competently
outstanding coding in XML, with code efficiencies clearly displayed, all parameters using meaningful names, code well commented

<table>
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<tr>
<th>Criteria for L.O. #5</th>
<th>understanding how WSDL and BPEL enable ecommerce</th>
<th>limited understanding of what WSDL and BPEL actually is and do however showing some understanding of how they enables ecommerce</th>
<th>competent understanding of WSDL and BPEL, limited recourse to the literature, perhaps just relying on the textbook or lecture notes</th>
<th>good understanding of the role of WSDL and BPEL, with some recourse to examples in the literature, beyond just knowledge of WSDL and BPEL from the lecture notes</th>
<th>outstanding understanding of the role WSDL and BPEL play, with comprehensive recourse to the literature providing further examples beyond what was asked for in the assignment</th>
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For each task, those standards translate into a mark and the different component marks are added up. You will then be given a grade that reflects your achievement in the unit. The following description of the different grades is still in draft form and therefore not official as yet

- **Fail (F):** does not provide evidence of attainment of all learning outcomes. There is missing or partial or superficial or faulty understanding and application of the fundamental concepts in the field of study; and incomplete, confusing or lacking communication of ideas in ways that give little attention to the conventions of the discipline.

- **Pass (P):** provides sufficient evidence of the achievement of learning outcomes. There is demonstration of understanding and application of fundamental concepts of the field of study; and communication of information and ideas adequately in terms of the conventions of the discipline. The learning attainment is considered satisfactory or adequate or competent or capable in relation to the specified outcomes.

- **Credit (Cr):** provides evidence of learning that goes beyond replication of content knowledge or skills relevant to the learning outcomes. There is demonstration of substantial understanding of fundamental concepts in the field of study and the ability to apply these concepts in a variety of contexts; plus communication of ideas fluently and clearly in terms of the conventions of the discipline.
• **Distinction (D):** provides evidence of integration and evaluation of critical ideas, principles and theories, distinctive insight and ability in applying relevant skills and concepts in relation to learning outcomes. There is demonstration of frequent originality in defining and analysing issues or problems and providing solutions; and the use of means of communication appropriate to the discipline and the audience.

• **High Distinction (HD):** provides consistent evidence of deep and critical understanding in relation to the learning outcomes. There is substantial originality and insight in identifying, generating and communicating competing arguments, perspectives or problem solving approaches; critical evaluation of problems, their solutions and their implications; creativity in application.

The final mark for the unit will be calculated by combining the marks for all assessment tasks according to the percentage weightings shown in the assessment summary.

The final examination in this unit is a hurdle requirement. You must get a mark of at least 40% in the examination to pass the unit. If you get a mark of at least 30% in your first attempt at the final examination you will be given a second and final attempt.

### Changes since First Published

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>23/07/2018</td>
<td>Wording with regard to supplementary exams added.</td>
</tr>
<tr>
<td>12/07/2018</td>
<td>The supplementary exam conditions have been clarified.</td>
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