Description: Knowledge Management Systems

<table>
<thead>
<tr>
<th>Subject</th>
<th>Cat-nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
<th>Campus</th>
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<tr>
<td>CIS</td>
<td>3004</td>
<td>62450</td>
<td>1, 2007</td>
<td>ONC</td>
<td>1.00</td>
<td>Toowoomba</td>
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Academic group: FOBUS
Academic org: FOB005
Student contribution band: 2
ASCED code: 020307

STAFFING
Examiner: Abdul Hafeez-Baig

REQUISITES
Pre-requisite: CIS1001

OTHER REQUISITES
Students are required to have access to a personal computer, e-mail capabilities and Internet access to USQConnect. Current details of computer requirements can be found at http://www.usq.edu.au/handbook/current/busgeninfo.html

RATIONALE
The growing importance of Knowledge Management Systems in the form of artificial intelligence, decision support systems, executive information systems, expert systems and group support software requires new skills to be able to develop, implement, and manage these systems in a business environment. Organisations are increasingly using knowledge management systems to help managers in creating, recording, sharing, and using knowledge for decision making. Skills in designing and using these systems will play an increasing part in applying technology to business needs. This course provides the student with both theoretical knowledge and practical experience in the analysis of applications suited to Knowledge Management Systems and in the development and application of systems which process knowledge rather than data, and explores the broader business and social implications of effective Knowledge Management.

SYNOPSIS
This course introduces the student to the important field of Knowledge Management Systems in a business environment by introducing Knowledge Management concepts, and exploring how Knowledge Management is facilitated by various information system technologies. The emphasis throughout is on the practical use of software to acquire, create, disseminate, organise, and utilise knowledge for decision making. Students are given practical experience in the development of a Decision Support System using Visual Basic for Applications (VBA), and experience in working...
to presentation standards with Extensible Markup Language (XML) and Cascading Style Sheets (CSS).

**OBJECTIVES**

The course objectives define the student learning outcomes for a course. The assessment item/s that may be used to assess student achievement of an objective is/are shown in parentheses after each objective. On successful completion of this course, students should be able to:

1. understand the terminology and concepts in Knowledge Management and Knowledge Management Systems (Assignment 1, Assignment 2, Examination)
2. apply and evaluate Knowledge Management software in a business environment (Assignment 1, Assignment 2, Examination)
3. demonstrate practical skills in developing Decision Support Systems using Excel with Visual Basic for Applications (VBA) and XML development tools (Assignment 1, Assignment 2, Examination)
4. understand current developments in the field of Knowledge Management Systems and their potential impacts on organisations (Assignment 1, Assignment 2, Examination).

**TOPICS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Knowledge management: knowledge management systems in context</td>
<td>20.00</td>
</tr>
<tr>
<td>2. Decisions, decision making, and decision makers</td>
<td>15.00</td>
</tr>
<tr>
<td>3. Technologies including decision support systems, GDSS, ODSS, executive information systems, expert systems, intelligent agents, data warehouses, data mining</td>
<td>25.00</td>
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<tr>
<td>4. Knowledge engineering and acquisition</td>
<td>10.00</td>
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<tr>
<td>5. Practical: VBA with Excel and XML development</td>
<td>30.00</td>
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</table>

**TEXT and MATERIALS required to be PURCHASED or ACCESSED**

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at http://bookshop.usq.edu.au click 'Semester', then enter your 'Course Code' (no spaces).

We recommend that you use Microsoft Excel XP (or later), Microsoft Internet Explorer 6 (or later), and Microsoft WordPad included with Microsoft Windows XP (or later).

CIS3004 study package available from the USQ Bookshop.

The texts 'The Web wizard's guide to XML' and 'Decision support systems in the 21st century' will be available in a package from the USQ Bookshop at a cost saving to students.

You are required to monitor the course study desk (through USQConnect) for course updates and additional materials.


**REFERENCE MATERIALS**

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.


**STUDENT WORKLOAD REQUIREMENTS**

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
</tr>
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<tbody>
<tr>
<td>Laboratory or Practical</td>
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<tr>
<td>Classes</td>
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<tr>
<td>Lectures</td>
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<td>Private Study</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks out of</th>
<th>Wtg(%)</th>
<th>Due date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSIGNMENT 1</td>
<td>20.00</td>
<td>20.00</td>
<td>23 Apr 2007</td>
</tr>
<tr>
<td>ASSIGNMENT 2</td>
<td>20.00</td>
<td>20.00</td>
<td>28 May 2007</td>
</tr>
<tr>
<td>PART A OF 2-HOUR EXAMINATION</td>
<td>30.00</td>
<td>18.00</td>
<td>END S1 (see note 1)</td>
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<tr>
<td>PART B OF 2-HOUR EXAMINATION</td>
<td>70.00</td>
<td>42.00</td>
<td>END S1</td>
</tr>
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</table>

NOTES

1. The examination is scheduled to be held in the end-of-semester examination period. Students will be advised of the official examination date after the timetable has been finalised.

IMPORTANT ASSESSMENT INFORMATION

1. Attendance requirements:
   It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.

2. Requirements for students to complete each assessment item satisfactorily:
   To satisfactorily complete an individual assessment item a student must achieve at least 50% of the marks. (Depending upon the requirements in Statement 4 below, students may not have to satisfactorily complete each assessment item to receive a passing grade in this course.)

3. Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval then a penalty of 20% of the total marks gained by the student for the assignment will apply for each working day late.

4. Requirements for student to be awarded a passing grade in the course:
   To be assured of receiving a passing grade a student must submit all of the assessment items, achieve at least 50% for the examination and at least 50% of the total weighted marks available for the course.

5. Method used to combine assessment results to attain final grade:
   The final grades for students will be assigned on the basis of the aggregate of the weighted marks obtained for each of the summative assessment items in the course.

6. Examination information:
   This is a restricted examination. Candidates are allowed access to specific materials during the examination. The only materials that candidates may use in the examination for this course are (i) Writing materials: non-electronic and free from material which could give the student an unfair advantage in the examination; and (ii) Translation dictionaries: with the examiner's approval, candidates may, take an appropriate non-electronic translation dictionary into the examination. This will be subject to perusal and, if it is found to contain annotations or markings that could give the candidate an unfair advantage, it may be
removed from the candidate's possession until the appropriate disciplinary action is completed.

7 Examination period when Deferred/Supplementary examinations will be held:
Any Deferred or Supplementary examinations for this course will be held during the next examination period.

8 University Regulations:
Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL http://www.usq.edu.au/corporateservices/calendar/part5.htm. Students should also read the Faculty of Business Guide to Policies and Procedures of the Faculty which can be found at the URL http://www.usq.edu.au/handbook/current/buspolproc.html.

ASSESSMENT NOTES

1 Assignments: (i) The due date for an assignment is the date by which a student must submit the assignment to the USQ. (ii) Students must retain a copy of each item submitted for assessment. This must be produced within 24 hours if required by the examiner. (iii) In accordance with university policy, the examiner may grant an extension of the due date of an assignment in extenuating circumstances. (iv) The examiner will normally only accept assessments that have been written, typed or printed on paper-based media. (v) In the event that a due date for an assignment falls on a local public holiday in their area, such as a show holiday, the due date for the assignment will be the next day. Students are to note on the assignment cover the date of the public holiday for the examiner's convenience.

2 Guidelines for assignments: Unless otherwise directed by the examiner, all written and oral assignments submitted by students must conform to the guidelines laid out in the 'Communication skills handbook: how to succeed in written and oral communication' and the 'Information systems developers handbook: a road map for students'. Any work not prepared in accordance with these guidelines may be subject to penalty or requirement for resubmission.

3 Course weightings: Course weightings of topics should not be interpreted as applying to the number of marks allocated to questions testing those topics in an examination paper. The examination may test material already tested in assignments.

4 Make-up work: Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade: IM (Incomplete - Make up). An IM grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non-directed personal study.

5 Deferred work: Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded IDS (Incomplete - Deferred Examination; IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).

OTHER REQUIREMENTS

1 Learning resources: Prescribed texts and materials (see above); recommended reference materials (see above); printed Introductory Book*, Book of Selected Readings*, Practice
Book*, and Study Book*; and course Website accessible via USQConnect. *part of the study package available from the USQ Bookshop.

2 E-mail and Internet access: Students will require access to e-mail and Internet access to USQConnect for this course.