Description: Business Systems Planning and Implementation

<table>
<thead>
<tr>
<th>Subject</th>
<th>Cat-nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
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<tr>
<td>CIS</td>
<td>8004</td>
<td>44258</td>
<td>2, 2005</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:** 020399

**STAFFING**

Examiner: Raj Gururajan  
Moderator: Jeffrey Soar

**REQUISITES**

Pre-requisite: CIS5001

**RATIONALE**

Over the past 40 years, but especially in the last decade, the rapid growth of information communication technologies (ICT) has created a new set of managerial challenges which has profoundly affected both how organizations operate and how they compete. The impact of IT has not been confined to large organizations as even very small firms are now being affected. Because the field is changing rapidly, the task for management is not just in handling day-to-day operating problems and assimilating new technologies, but in learning and applying new methods of information systems planning and implementation to meet these new challenges. That is the focus of this course.

**SYNOPSIS**

This course examines the total information system planning cycle. It focuses on the management issues concerned with specification of information systems requirements to achieve corporate goals by emphasising the integration of information systems planning into the business planning process. A range of methodologies for deriving information requirements for the various levels of management are examined, including soft systems methodologies and data-oriented and process-oriented approaches. Automated aids, including computer-aided software engineering (CASE) tools, for the planning, development and implementation of information systems are evaluated. The course also covers user education strategies to facilitate acceptance and utilisation of information technology.

**OBJECTIVES**

Successful completion of this course should enable a student to:
1. comprehend and explain the role of information technology (IT) in the corporate environment;
2. comprehend the important IT concepts and frameworks and use them for effective IT managerial decision making;
3. identify the management issues in IT strategic planning;
4. select and apply various computer-aided software engineering (CASE) tools to the information systems (IS) planning cycle;
5. choose and apply an appropriate methodology for the definition of IS requirements at the various levels of management;
6. devise and evaluate strategies for the development and management of an information system within an organization;
7. plan an appropriate education programme for IT users.

**TOPICS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Overview of IT management</td>
<td>8.00</td>
</tr>
<tr>
<td>2. IT’s strategic role</td>
<td>12.00</td>
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<tr>
<td>3. IT environment</td>
<td>8.00</td>
</tr>
<tr>
<td>4. System Development Methodologies</td>
<td>16.00</td>
</tr>
<tr>
<td>5. CASE technology/Technologies for developing systems</td>
<td>8.00</td>
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<tr>
<td>6. IS requirements engineering</td>
<td>8.00</td>
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<tr>
<td>7. Executive information systems</td>
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<tr>
<td>8. Managing IS development/implementation</td>
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<tr>
<td>9. Managing IS operations/maintenance</td>
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<tr>
<td>10. Managing IS implementation/maintenance</td>
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<tr>
<td>11. Moving into the new economy/Challenges ahead</td>
<td>8.00</td>
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**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).

CIS8004 study package available from the USQ Bookshop.


(revised & updated edition)
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.

*Journal of Strategic Information Systems, JSIS,*
(Relevant articles from this text and other IS journals)


Information Systems Research *MIS Quarterly,*
(relevant articles from these journals)


Thierauf, RJ 1987, *Effective management information systems: accent on current practices,* 2nd edn, Merrill, Columbus.


STUDENT WORKLOAD REQUIREMENTS

<table>
<thead>
<tr>
<th>ACTIVITY</th>
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<tr>
<td>Assessment</td>
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<tr>
<td>Directed Study</td>
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<tr>
<td>Others</td>
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<td>Private Study</td>
<td>40.00</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
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<th>Wtg(%)</th>
<th>Due date</th>
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<tr>
<td>ASSIGNMENT 1</td>
<td>100.00</td>
<td>20.00</td>
<td>19 Aug 2005</td>
</tr>
<tr>
<td>ASSIGNMENT 2</td>
<td>100.00</td>
<td>30.00</td>
<td>07 Oct 2005</td>
</tr>
<tr>
<td>3 HOUR EXAMINATION</td>
<td>100.00</td>
<td>50.00</td>
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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 complete the assignments satisfactorily, students must obtain at least 50% of the marks available for the assignments in aggregate. To complete the examination satisfactorily, students must obtain at least 50% of the marks available for the examination.

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 attempt all of the summative assessment items, achieve an aggregated mark of at least 50% in the total marks allocated for the assignments, achieve at least 50% in the examination, and at least 50% of the available weighted marks for the summative assessment items.

5. Method used to combine assessment results to attain final grade:
   The final grades for students will be assigned on the basis of the weighted aggregate of the marks (or grades) 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; (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

ASSESSMENT NOTES

1 Assignments: (i) The due date for an assignment is the date by which a student must
despatch the assignment to the USQ. The onus is on the student to provide proof of the
despach date, if requested by the Examiner. (ii) If requested, students will be required
to provide a copy of an assignment submitted for assessment purposes. This should be
despachted to the USQ within 24 hours of receipt of a request being made. (iii) The
Examiner may grant an extension of the due date of an assignment in extenuating
circumstances. Students may apply for an extension before the due date or include an
application with the submitted assignment after the due date. Such applications should
be in writing and include supporting documentary evidence. The authority for granting
extensions rests with the relevant Examiner. (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 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.

3 Referencing in 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’. Any work not prepared in accordance with these guidelines may be
subject to penalty or requirement for resubmission.

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).
6 Appeals: Any appeal against the award of a grade in the course will be conducted in accordance with University Regulations. These Regulations are published in the University Handbook.

OTHER REQUIREMENTS

1 Learning Resources: Prescribed text and materials (see above); prescribed reference materials (see above); printed Introductory Book*, Study Book/s*, and Book/s of Selected Readings*; 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.