Description: Information Communication Technology and the Thinking Classroom

<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>
</tr>
</thead>
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<tr>
<td>EDU</td>
<td>3472</td>
<td>66884</td>
<td>2, 2007</td>
<td>ONS</td>
<td>1.00</td>
<td>Toowoomba</td>
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</table>

Academic group: FOEDU
Academic org: FOE003
Student contribution band: National Priority Teaching
ASCED code: 070103

STAFFING
Examiner: Petrea Redmond
Moderator: Peter Albion

OTHER REQUISITES
State law in Queensland (Australia) requires that all adults working/undertaking professional experience/researching with children under the age of 18, in the state of Queensland are required to possess a current suitability card (Blue Card). (See "Other Requirements" for further information.) Also see: http://www.childcomm.qld.gov.au/employment/bluecard/informationSheets.html.

RATIONALE
The information age has required educators to teach the 3 Ts: Technology, Thinking and Teamwork, in addition to the traditional 3 Rs. Great teaching combined with effective ICT integration and mindware (thinking skills, questioning skills and communication skills) can transform classrooms. This course provides pre-service teachers with skills to develop effective questioning and thinking activities within the classroom. ICT and questioning are tools that assist our students to gain insight and understanding of the changing world around them.

SYNOPSIS
This course assists pre-service teachers to manage the 'poverty of abundance', where the amount of information is overwhelming, and quality information may be difficult to determine. Pre-service teachers will be introduced to strategies to develop questioning and thinking within their classroom. Using information and communication technologies (ICT) they will create scaffolded activities for students to move through the information literacy process, modelling powerful questions that require thinking beyond the regurgitation of facts. Students will be introduced to a range of software that can be used to support the work of teachers and students. They will have opportunity to develop both skills in the use of the software and approaches to its integration into the classroom. Intending students should be aware that they require regular access to ICT resources including email and the internet.
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 are shown in parenthesis. On completion of this course students will be able to:

1. describe and discuss approaches to the use of ICT to support critical, creative and complex thinking (All assessment items)
2. apply software tools to the analysis and solution of problems (Assignment 2)
3. make informed and substantiated judgements about the value of particular software and Internet tools for their own work (All assessment items)
4. describe and discuss questioning and thinking strategies (All assessment items)
5. evaluate hardware, software and Internet tools for classroom use (Assignment 2)
6. distinguish among and generate the different types of questions which may be asked by teachers to support learning in the development of new knowledge (Assignment 2)
7. use ICT to create activities that engage students in learning and thinking (Assignment 2)
8. plan curriculum delivery which embeds ICT in a thinking classroom (Assignment 2)
9. demonstrate knowledge, understanding and application of appropriate personal, professional and academic literacies (All assessment items).

TOPICS

<table>
<thead>
<tr>
<th>Weighting (%)</th>
<th>Description</th>
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<tbody>
<tr>
<td>15.00</td>
<td>Problem solving, critical thinking and the curriculum; curriculum planning for thinking</td>
</tr>
<tr>
<td>15.00</td>
<td>Effective questioning techniques and levels, planning and implementing questioning activities</td>
</tr>
<tr>
<td>50.00</td>
<td>ICT for developing and supporting thinking; semantic organisation tools; interpretation tools, knowledge construction tools, conversation tools</td>
</tr>
<tr>
<td>20.00</td>
<td>Implementing software tools in the classroom; evaluating digital resources</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).

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>
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<tbody>
<tr>
<td>Assessment</td>
<td>19.00</td>
</tr>
<tr>
<td>Lectures</td>
<td>12.00</td>
</tr>
<tr>
<td>Private Study</td>
<td>100.00</td>
</tr>
<tr>
<td>Tutorials</td>
<td>24.00</td>
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</table>

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: RESEARCH PAPER</td>
<td>40.00</td>
<td>40.00</td>
<td>23 Jul 2007</td>
</tr>
<tr>
<td>ASSIGNMENT 2: PORTFOLIO</td>
<td>60.00</td>
<td>60.00</td>
<td>23 Jul 2007</td>
</tr>
</tbody>
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NOTES

1. Course examiner to advise the due dates for all assessment items.

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.

3 Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval of the examiner then a penalty of 10% 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 complete and submit all of the summative assessment items and must achieve 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:
   There is no examination in this course.

7 Examination period when Deferred/Supplementary examinations will be held:
   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.

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 or in the current USQ Handbook.

ASSESSMENT NOTES

1 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 despatch date, if requested by the examiner.

2 Students must retain a copy of each item submitted for assessment. This must be produced within twenty-four (24) hours of receipt of request being made by the examiner. The student must retain this copy until the grade for this course has been finalised.

3 In accordance with the University's assignment extension policy (Regulation 5.6.1), the examiner may grant an extension of the due date of an assignment in extenuating circumstances.

4 The Faculty will normally only accept assessments that have been printed on paper-based media. The Faculty will NOT accept submission of assignments by facsimile. Students who do not have regular access to postal services or who are otherwise disadvantaged by these regulations may be given special consideration. They should contact the examiner of the course to negotiate such special arrangements.

5 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 of 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.

6 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).

7 When there is more than one marker for a single item of assessment, the distributed patterns and means for the different markers will be compared and marks adjusted if necessary.

9 Marking criteria are provided in course material as mark sheets/guides or as part of assignment specifications.

10 Summative assessment items will receive a numerical score. Any ungraded assessment requirement will receive a Pass, Fail or Incomplete.

OTHER REQUIREMENTS

1 Students will require access to email and Internet access to USQConnect for this course.

2 Students are to use a recognised referencing system as specified by the examiner.

3 IMPORTANT NOTE: Working with Children: State law in Queensland requires that all adults (including university students, pre-service educators, trainers, vocational teachers, industry educators) working with children under the age of 18, in the State of Queensland*, obtain approval before commencing such work. Many education courses include a practical component (professional experience, project work, research, assessment etc.) that may require engagement with children under the age of 18. It is your responsibility to ensure that you possess a current suitability card (Blue Card) before commencing any practical components of this course. DO NOT PARTICIPATE IN ANY PRACTICAL EXPERIENCE WITH CHILDREN UNDER 18 UNLESS YOU POSSESS A CURRENT 'BLUE CARD'. For further information: http://www.childcomm.qld.gov.au/employment/bluecard/informationSheets.html *If you are undertaking practical experience outside the State of Queensland, Australia you should check local requirements.