

TJ853 Information and Communication Technologies 2005-TP3

OBJECTIVES:

To enable students to:

- q Identify new forms of teaching and learning which can be supported by emerging technologies
- q Apply critical evaluative processes to assess the educational value of ICTs as adjuncts to effective teaching practice
- q Develop innovative and student centred curriculum to utilise ICTs as learning technologies
- q Display leadership in the operation of school computer resources to develop effective learning environments in P-10 settings
- q Develop meaningful learning activities representing the interests and aspirations of N-Gen students
- q Make the application of ICTs an integral and routine part of professional practice
- q Access current technologies, software and communication in site-based settings

CONTENT:

This includes:

- q Visions of possible futures for education framed around an increasingly eLearning defined set of expectations
- q Becoming a citizen in a technologically rich society
- q Impacts on conventional forms of learning from mobile technologies and broadband.
- q Integrating ICT into curriculum
- q Shaping curriculum through sound pedagogies and appropriate technologies
- q Leadership and change strategies
- q Evaluation of the impact of ICT on learning outcomes
- q Matters of equity, ethics and social justice.

Learning Task	Assessment	Weighting
Identifying resources and practices associated with effective learning and emerging ICTs. (RR)	Annotated literature review supported by reviews of appropriate software	20%
Acquiring skills in the application of ICT in a learning setting. (RR)	Criteria based workshop activities	20%
Evaluation of a curriculum application, derived from ICT, for a P-10 learner. (CB)	Project task structured around agreed guidelines developed in negotiation with teams.	60%

TEACHING APPROACHES:

- q learning through the integration of learning technologies into the curriculum
- q communities of learners utilising ICT formats
- q academic reading and writing
- q library enquiry supported by online resources
- q learning through interchange, critique and practice

LEARNING TASKS AND ASSESSMENT

You are expected to use and develop a variety of approaches to your learning including:

- q Attendance at scheduled sessions
- q Required reading supported by your own wider reading from scholarly and professional journals
- q Learning as a member of a community of learners supported by the WebCT activities
- q Linking readings, observations and experience through systematic critical and analytical reflection
- q Working cooperatively to support inquiry processes framed by the unit

Key Text

Shelly, Gary B [et al.]. **Integrating technology in the classroom : teachers discovering computers** Published Cambridge, Mass. : Course Technology, 2002. (on reserve)

ASSESSMENT TASKS

1. Project task (CB)

This is to be negotiated with the unit co-ordinator and completed during within an eight-twelve hour time frame. There are opportunities for the project to be undertaken in site-base settings. Innovative forms of presentation are encouraged. Following the VELS requirements, the projects must demonstrate how ICT can be integrated into learning, not taught as an isolated skill, and be supported by a literature.

Value: 60%: comprised of 4 bi-weekly contributions to WebCT reporting progress (20%) and the completed project (40%)
Project Due: week 8 of semester.
2. Annotated literature and software review (RR)

Students are to locate an example of exemplary ICT practice in any one of the Discipline-based Learning domains, then use the literature to explain why this represents an exemplar. The review must address the practice, the context and the resources. Guidelines will be distributed.

Value: 20%
Due: week 5 of semester
3. Criteria based workshop activities (RR)

A series of practical exercises utilising ICT. These will be distributed during the workshops.

Value: 20%
Due: as noted on each activity.

ASSESSMENT CRITERIA

These will be distributed for each assessment requirement.

WEEKLY SCHEDULE

	Monday Classes WebCT/ T237 CB	Monday Workshops T316 RR
Week 1.	eLearning as a strategy for Victorian schools Reading: <i>VELS Interdisciplinary Learning Strand ICT</i>	Digital Photographs / Panorama / Portfolio
Week 2.	Practices with computers. Kahootz Reading: <i>White (2005) : Beyond the Horseless Carriage: Harnessing the</i>	Audio recording and manipulation using GoldWave.

<i>potential of ICT in education and training</i>		
Week 3.	Thinking digitally: FlipAlbum eBooks and digital portfolios. <i>Shelly et al Chapt 5</i>	Animations
Week 4.	Creating an eLearning module HotPotatoes <i>Reading Sutherland, Designs for learning.</i>	MicroWorlds project
Week 5.	The collaborative classroom: Blogs, chats and bulletins. <i>Reading Glogoff, Instructional Blogging:</i>	Individual Critique of MicroWorlds project
Week 6	The communicating classroom: MSProducer <i>Shelly et al Chapt 2</i>	Digital Photographs / Panorama / Portfolio
Week 7	The Rolling Fund: finding and advocating ICT resources. <i>Shelly et al Chapt 7.</i>	Audio recording and manipulation using GoldWave.
Week 8.	Classroom 2010: what could it be like?	Animations

REFERENCES

Students are expected to read widely, making use of the Mt Helen library and data bases of refereed journals. Papers will be distributed during the semester to support this reading.

Burniske, R. W., (2001) *Breaking down the digital walls : learning to teach in a post- modern world* Albany : State University of New York Press

Bowers, C. A. (1988) *The cultural dimensions of educational computing : understanding the non-neutrality of technology* New York : Teachers College Press

Hefzallah. , I. M. (2004) *The new educational technologies and learning : empowering teachers to teach and students to learn in the information age* Springfield, Ill. : C.C. Thomas

Ivor F. Goodson (2002) *Cyber spaces/social spaces : culture clash in computerized classrooms* New York : Palgrave

Cook, Deirdre, (1999) *Interactive children, communicative teaching : ICT and classroom teaching* Buckingham : Open University Press

Khine,M.S., Fisher, D. eds (2003) *Technology-rich learning environments : a future perspective* Singapore ; River Edge, NJ

Leask, Marilyn. (2001) *Issues in teaching using ICT* London : Routledge Falmer

Senn, J.A. (2004) *Information technology : principles, practices, and opportunities* Upper Saddle River, NJ : Pearson Prentice Hall

Lockard, J. Abrams, P (2004) *Computers for Twenty-First Century Educators* Pearson

Madux, C.D. Johnson, D.L. & Willis, J.W. (2001) *Educational Computing Learning with Tomorrow's Technologies.* Allyn and Bacon

Shelly, Gary B., Cashman,Thomas J. And Nuscher, David N. *Discovering computers 2006: a gateway to information, Complete. Study Guide.* Imprint Course Technology Inc. 2005

Real time : computers, change and schooling : national sample study of the information technology skills of Australian school students. A project funded by the Commonwealth Department of Education, Training and Youth Affairs / Denise Meredyth [Canberra]

Wegerif, R. (2004) *Thinking and learning with ICT : raising achievement in primary classrooms* London : RoutledgeFalmer

Journals

Computers and Education	Curriculum Enquiry
Curriculum Perspectives	Educational Technology
British Educational Research Journal	Phi Delta Kappan
British Journal of Educational Studies	Curriculum Journal
Contemporary Education	International Journal of Educational Technology

[Teaching Interactively with Electronic Whiteboards](#)
[Using Interactive Whiteboards](#)
[Looking Beyond the Electronic Whiteboard](#)

Education Authorities

National

EDNA <http://www.edna.edu.au/go/browse/3830:759:4814#resulttab>

MCEETYA <http://www.curriculum.edu.au/mceetya/public/public.htm>

DEST

<http://www.dest.gov.au/schools/publications/subject.htm#Information and Communication Technology>

States and Territories

ACT <http://www.decs.act.gov.au/publicat/publicat.htm>

Qld <http://education.qld.gov.au/itt/>

NSW <http://www.schools.nsw.edu.au/learning/yrk12focusareas/learntech/index.php>

NT <http://www.latis.net.au/>

SA <http://www.tsof.edu.au/LT.SA/>

WA <http://www.eddept.wa.edu.au/cmisis/eval/curriculum/ict/index.htm>

Vic <http://www.sofweb.vic.edu.au/ict/index.htm>

Tas <http://www2.education.tas.gov.au/>

National Catholic Education Commission <http://www.ncec.catholic.edu.au/>

Look for other schools and systems through Web66 <http://web66.coled.umn.edu/schools.html>