Instructional Media and E-Learning
Module 2

Presented by
Dr. Chan Chang Tik
Contents

- Instructional Media
- E-Learning at INTI-UC
Recap of Part 1

- Set induction and advance organizers
- Learning objectives and outcomes
- Gagne’s instructional events
Video on Make a Difference

Make a Difference

Try to relate to your personal experiences similar to the one in the video and share with us.
Instructional Media

- Whiteboard
- Overhead projector
- PowerPoint slides
Group Activity 1: Whiteboard Teaching

- You will be shown two videos on whiteboard teaching. Give your comments on the strengths and weaknesses observed.
- Each group will present to the class your observations.

- Time: 20 minutes
Rules for Effective Use of Whiteboard

- Write large and legible, don’t slant upwards.
- Start the class and end it with a clean board.
- Always title what you put on the board.
- Plan and organize the material and move from left to right. Divide the board.
Whiteboard (2)

- Provide space for writing learning objectives.
- Use colour pen for emphasis.
- Don’t teach to the board.
Group Activity 2: OHP

- Each group prepares a 5-minute lesson on transparencies. Present your lesson using the OHP.
- Comments from the other group participants.
- Time: 30 minutes
Rules for Effective Use of Overhead Projector

- Place the OHP in a position for clarity of projection and ensure the projector is not blocking student’s view.
- Project materials on a screen/wall. Avoid the whiteboard.
- Have the projector turn on ONLY when in use.
OHP (2)

- Deliver clear, understandable message and highlight points with pen as pointer.
- Use only blue or black inks on transparencies.
- Use large fonts (size 14) and present material clearly – not crammed.
**OHP (3)**

- Do not read from the transparency or the screen while you teach.
- Use opaque paper to cover sections to progressively display information.
- Use overlays to simplify complex information into layers to attain a step-by-step build-up.
OHP Demonstration

- Opaque paper method
- Overlays method
- Cover-up method
Group Activity 3: PowerPoint

- Most of us have used PowerPoint to teach. Let’s reflect on what we did with PowerPoint in the class.

- Please share with us your usage of PowerPoint in your teaching.

Time: 20 minutes
Rules for Effective Use of PowerPoint Slides

- What is the point?
- Strengths and weaknesses of PowerPoint.
- Don’t rush – students need a chance to see the words as well as listen to you.
PP Slides (2)

- Don’t read from your slides.
- Don’t overwhelm your audience with text.
- Don’t cluster the screen with graphics.
PP Slides (3)

- Don’t release everything in one go.
- Design is best kept simple, not too flashy.
- Switching between different medium/equipment during presentation.
An interactive lesson:

- Is a visually-based, behaviour-oriented teaching strategy appropriate for learners of all ages who benefit from the concrete learning experiences that graphic presentations offer.

- Contains self-paced instructional content appropriate for students who learn best when instructed at their own pace, or who need the benefits provided by remedial instruction outside the classroom.
Instructional Strategies with PowerPoint

- Lecture framework
- “Slide” show
- Socratic dialogue
- Case or problem presentation

Which instructional strategies do you normally use with PowerPoint?
Lecture Framework

- Format: introduction, body, conclusion
- Can’t include EVERYTHING
- Point and example pattern
- Focus attention with slow reveal
- Visuals as mnemonics and to enforce
“Slide” Show

- Visual examples: Arts, specimens, models
- Present, identify and discuss pattern
- Side-by-side comparison
Socratic Dialogue

- Engage and provoke your students
- Use present and question pattern
- Slides control the flow of dialogue
- Use blank slide to summarize/display points
Case or Problem Presentation

- Story-telling
- Need way to present rich information graphs, sounds, video, Applet, etc.
- Follow up with discussion
Research Method
M04SOR

Lecture 1: An Introduction
Lecturer: Dr. Chan Chang Tik
Learning Outcomes

You will be able to:

- Define the characteristics of a research.
- Describe a research process.
- Produce a research topic which eventually leads to a research proposal.
What is not a Research?

- Research is not more information gathering.
  - Doing research in the library.

- Research is not rummaging for information.
  - A car for sale.

- Research is not mere transportation of facts from one location to another.
  - You submitted an academic paper.
Conclusion

- Use the checklist of attributes to polish your research idea into a good research topic.
- Convert your research topic into research questions and objectives.
Genus Helianthus

Flower typically 10-12” wide

Edible seeds

Yield oil

Grown primarily in Southern U.S.

Comparison with palm oil from Malaysia
Socratic Dialogue Example

The Sun

LOW COST PALACE

ZAKARIA’S PALACE
Socratic Dialogue Example (2)

Dr. Mohd. Khir Toyo

“It’s alright we can still appoint him as councillor, party principles allowed”
The Oriental Co. posted profits total RM5.3 million in the last quarter.

Questions
1. Analyze the …
Group Activity 4: INTI Online

- At INTI-UC lecturers have to use INTI Online to support their face-to-face teaching. Among some of the features in INTI Online are online forum discussion, online assessment, notices, contents and coursework mark.

- Each group gives us your comments on how INTI Online can be used to support face-to-face teaching.
E-Learning at INTI - UC

What is e-learning?

- Computer Assisted Learning
  - Phase 1 – learning materials on the CD-ROM.
- Internet-based learning
  - Phase 2 – support learning materials on the Web.
  - Phase 3 – course materials for distance learning program.
Why INTI implements E-Learning?

- For distributed learning on branch campuses: Phase 1 (started in 2001).
- To enhance the teaching-learning process on campus: Phase 2 (started April, 2002).
- To deliver distance education programs: Phase 3 (started August, 2003).
E-learning to support teaching & learning

- You can conduct e-learning in the classroom aided by INTI Online learning management system (LMS).
- To support e-learning in a classroom you may need other features like:
  - Forum
  - Assessment
  - Events and Notices
  - Coursework mark
  - Email
  - Notes
E-learning to Support and Teaching and Learning (2)

- You can utilise the **study schedule** to organise your e-learning activities.
- Remember INTI Online is NOT for you to post your lecture notes only.
What is the Point?

- Talk-and-chalk.
- Not suitable for all subjects and all lectures.
Strengths of PowerPoint

- Organizing and reorganizing information
- Time for listening and comprehension
- Enhanced legibility and readability
- Illustrating concepts with multimedia
- Merging text, graphics and sound
Weaknesses of PowerPoint

- Dealing with lots of details, complex mathematical or chemical equations
- Two-way or multi-way learning
- Divergent exercises
- Interactive or non-linear paths
Notes

- As your lecture notes are posted to INTI Online, you can utilise your time effectively to explain in class and not copy notes on the board.
- Get your students to be more actively involved in the learning through classroom discussion.
Notes (2)

- Hyperlink suitable websites to your notes.
  - Tell your students to read certain articles which you would like them to discuss in the next lesson.
  - You discuss certain concept in the class and ask your students to read selected articles in the web for further understanding. In the next lesson, get a few students to present in class what they have read from the articles.
Engage your students in an online discussion in a forum.

Give your students relevant interesting topics to discuss.

Get your students to discuss assignments and projects.

Give credits to your students by allocating marks for the discussion.
Assessment

- To assist your students in self-evaluation set up online test and post it to the LMS.
- You can also use online test for appraisal purposes.
- Sometimes online tests are readily available in the Internet, use them wherever suitable.
## INTI Online Forum

### Add Forum

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>Forum Name:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Forum Description:</strong></td>
<td>The description which will appear below the forum Name. (Maxiumum 500 characters)</td>
</tr>
<tr>
<td><strong>Forum Status:</strong></td>
<td>Once locked, nobody can post new topics or reply topics to this forum</td>
</tr>
<tr>
<td><strong>Forum Display Mode:</strong></td>
<td>All communication in this topic will be based on this selection.</td>
</tr>
<tr>
<td><strong>Bad word filtering:</strong></td>
<td>The bad words in the posting will be filtered out. Each word in one line. (Maxiumum 500 characters)</td>
</tr>
<tr>
<td><strong>Access Restriction:</strong></td>
<td>If you want to ban some users from accessing this forum, choose the first option, and then enter the banned user ids. If you want to create a forum only accessible by a group of users, choose the second option, and then enter the granted user ids. Please type in the user's user id, one line for one user.</td>
</tr>
</tbody>
</table>

### Options

- Plain TEXT
- HTML Tags allowed

## Save Forum

**Reset**

**Cancel**
INTI Online Forum (3)

Topic: Role of mathematics in computing

CHAN CHANG TIK, DR

Posting : 2

Role of mathematics in computing

26 Mar 2004 10:55:38 AM
INTI Online Assessment

- Electronic quizzes or tests.
  - Students can use them for self-evaluation.
  - Lecturers can share the load.
  - Question format: MCQ, T/F, multiple responses and fill in the blank.
- Available at Assessment in INTI Online.
INTI Online Assessment (2)
INTI Online Assessment (3)

Question 4 of 4

The capital of Selangor is [ ] [ ].

55 Seconds left for the assessment
INTI Online Assessment (4)

Question 1 of 4
10 is a factor of 5. T / F

- True
- False

Seconds left for the assessment: 57
Question 3 of 4
Pick out prime numbers from set \( A = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\} \) There are more than one answers.

- [ ] 2, 5, 7
- [ ] 1, 2, 3, 5, 7
- [ ] 2, 3
- [ ] 2, 3, 5, 7
- [ ] 1, 3, 5, 7, 9
Question 4 of 4
Factorise $x^2 + x - 12$

- $(x - 4)(x - 3)$
- $(x + 4)(x + 3)$
- $(x + 4)(x - 3)$
- $(x - 4)(x + 3)$
- $(x - 2)(x + 6)$
INTI Online Assessment(7)

Results for Assessment: MAT250 Quiz 1

You have successfully completed the assessment

This is a preview. Tracking information not stored

Name of Candidate: CHAN CHANG TIK, DR
Score Obtained: 3 / 5
Score in percentage: 60%
Time Elapsed: 00 Hrs 00 Mins 38 Secs
Assessment Status: Passed
1. The name of the capital of Selangor is Shah Alam.  
Correct Answer: Shah Alam  
Feedback: That's correct.  
Marks: 1/1

2. 10 is a factor of 5. T / F  
T: True  
F: False  
Feedback: 10 cannot divide 5. Hence, it is not a factor.  
Marks: 0/1

3. Pick out prime numbers from set A = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}. There are more than one answers.  
1, 2, 3, 5, 7  
1, 3, 5, 7, 9  
2, 3  
2, 5, 7  
2, 3, 5, 7  
Feedback: That's correct.  
Marks: 2/2

4. Factorise: $x^2 + x - 12$  
(x - 4)(x + 3)  
(x + 4)(x + 3)  
(x - 4)(x - 3)  
(x + 4)(x - 3)  
(x - 2)(x + 6)  
Feedback: Wrong. You will get -7x instead of x.  
Marks: 0/1
Events

Class: BUSINESS STUDIES 1 (CMGT104Z06)

Class List » List

Data updated successfully!

<table>
<thead>
<tr>
<th>New</th>
<th>Delete</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Events</th>
<th>Start Date</th>
<th>End Date</th>
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</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>23 Mar 2006</td>
<td>23 Mar 2006</td>
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<tr>
<td></td>
<td>Answer all questions in 1 hour.</td>
<td></td>
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<tr>
<td>Quiz 1</td>
<td>23 Apr 2006</td>
<td>23 Apr 2006</td>
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<td>Answer all 3 questions in Quiz 1.</td>
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<tr>
<td>Assignment 1</td>
<td>29 Mar 2006</td>
<td>05 Apr 2006</td>
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<td>Penalty will be imposed if you submitted after 5.00 pm SHARP</td>
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Notices

Note: Items marked with * are mandatory

* Notice Title: Test Venue

* Notice Details: (Limited to 3000 characters)
Please use SHIFT+ENTER key for line break and ENTER key for Paragraph Break.

Please take note of a change in the test venue.

* Activation Date: 23 - 03 - 2006 (dd/mm/yyyy)

Expiry Date: 23 - 03 - 2006 (dd/mm/yyyy)

Attachment: 

Recipients: Filter: [Select] Semester Code: [Select] 

All 

Add >> 

<< Remove
Coursework Mark

### Class List

**Edit Coursework Details**

**Class**: BASIC COMPUTING (CCSC180Z06)

**Step 2**: Define maximum mark of the component and its weightage in overall score.

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<thead>
<tr>
<th>No.</th>
<th>Component</th>
<th>Max Marks</th>
<th>Weightage</th>
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<tbody>
<tr>
<td>1</td>
<td>Test</td>
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<tr>
<td>2</td>
<td>Assignment</td>
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<td>3</td>
<td>Quiz</td>
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<tr>
<td>4</td>
<td>Tutorial</td>
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<td>5</td>
<td>Project</td>
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<td>6</td>
<td>Lab Classes</td>
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<td>7</td>
<td>Case Studies</td>
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<td>8</td>
<td>Mid-Term</td>
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<td>9</td>
<td>Class Participation</td>
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<tr>
<td>10</td>
<td>Final Exam</td>
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**Total**: 0 %
Email

Send Email
Select the group to send an e-mail.

1. All Students
   Click here to send e-mail to all the students in the class.

2. All Lecturers
   Click here to send e-mail to all the lecturers in the class.

3. Selected Students
   Click here to send e-mail to selected students from the class.

4. Selected Lecturers
   Click here to send e-mail to selected lecturers from the class.
## Study Schedule

**Dr. Chan Chang Tik's Class Management Centre**

### Class List ▶ Content ▶ Study Schedule

#### Week 1

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Topic</th>
<th>Resources/SAQs</th>
<th>Tutorials/Practical</th>
<th>Assignment/Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Session 1 - Getting to Know You</td>
<td><a href="http://ultibase.rmit.edu.au/Articles/online/benfield1.htm">URL</a></td>
<td></td>
<td>Assignment File</td>
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#### Week 2

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<th>Resources/SAQs</th>
<th>Tutorials/Practical</th>
<th>Assignment/Assessment</th>
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<td>2</td>
<td>Session 2 - Good Online Host</td>
<td><a href="http://www.emoderators.com/moderators/artonlinehost.html">URL</a></td>
<td></td>
<td>Opening Message File</td>
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#### Week 3

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<th>Resources/SAQs</th>
<th>Tutorials/Practical</th>
<th>Assignment/Assessment</th>
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<tbody>
<tr>
<td>2</td>
<td>Session 2 - Good Online Host</td>
<td><a href="http://www.emoderators.com/moderators/artonlinehost.html">URL</a></td>
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<td>Public Conflicts File</td>
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#### Week 4

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<th>Assignment/Assessment</th>
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<tbody>
<tr>
<td>3</td>
<td>Session 3 - Weave and Summarise</td>
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